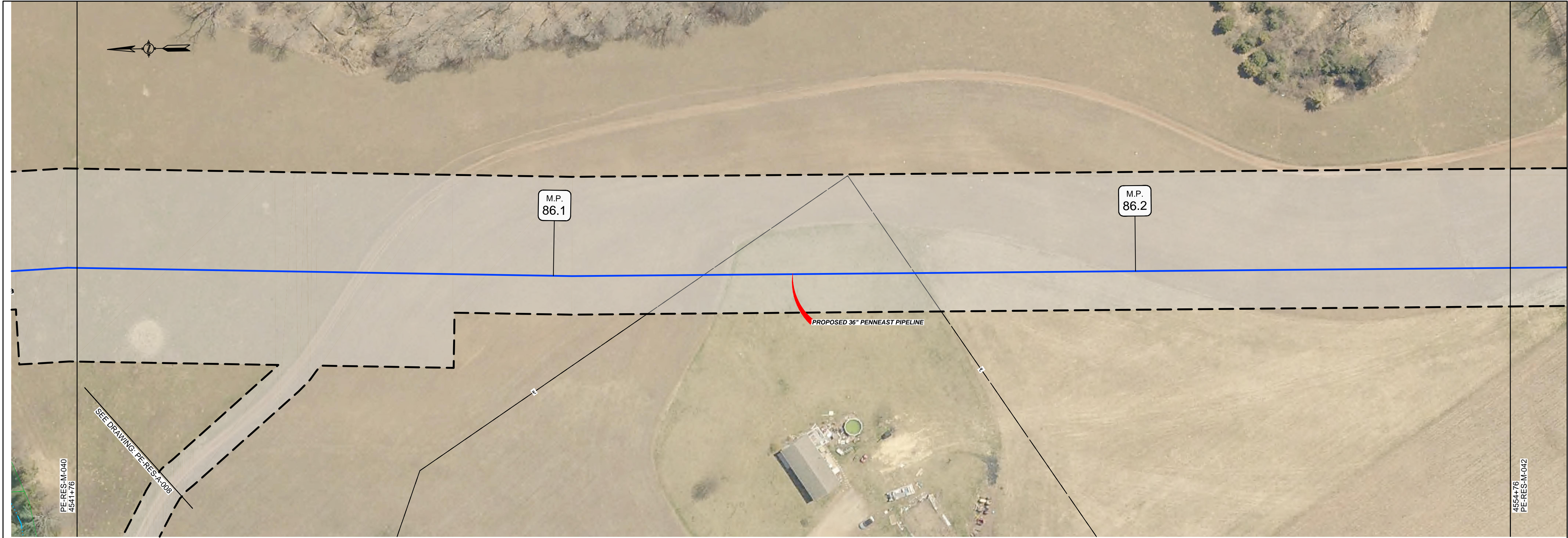
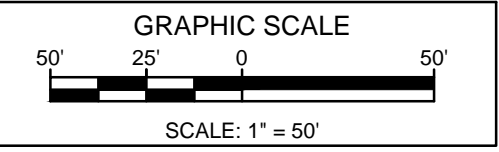
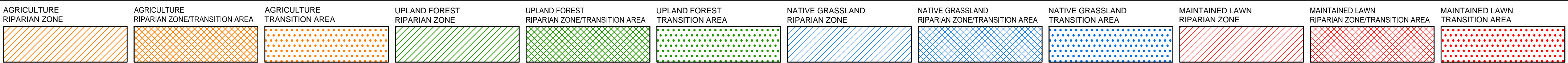


**RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES**



**LEGEND**

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK AND LOT NUMBER
- EXISTING CULVERT
- CORRUGATED PLASTIC PIPE
- CORRUGATED METAL PIPE
- HDPE
- PVC
- RCP
- UNK
- EXISTING FOREIGN UTILITY EASEMENT
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO.
- SAMPLE STATION
- STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

**NOTES FOR WETLAND RESTORATION:**

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS\*

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**THOMAS D. STRONG**  
PROFESSIONAL LAND SURVEYOR  
N.J. LIC. NO. 24GS03676100

SIGNATURE: *Thomas D. Strong* DATE: 08/01/2019

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**MICHAEL J. DENICHILO**  
PROFESSIONAL ENGINEER  
N.J. LIC. NO. 24GE05078700

SIGNATURE: *Michael J. Denichilo* DATE: 08/01/2019

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REFERENCE DRAWINGS		NO.		REVISIONS				APPROVALS			
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000-03-03-065	* ACCESS ROAD DETAIL	0		ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD	RJP	7/2019	
									CHECKED BY	DATE	
									KEK	7/2019	
									ENG. APPROVAL	DATE	
									MJD	7/2019	
									P.M. APPROVAL	DATE	
									MW	7/2019	

APPROVALS		CLIENT APPROVAL	DATE
DRAWN BY	DATE		
RJP	7/2019		
CHECKED BY	DATE		
KEK	7/2019		
ENG. APPROVAL	DATE		
MJD	7/2019		
P.M. APPROVAL	DATE		
MW	7/2019		

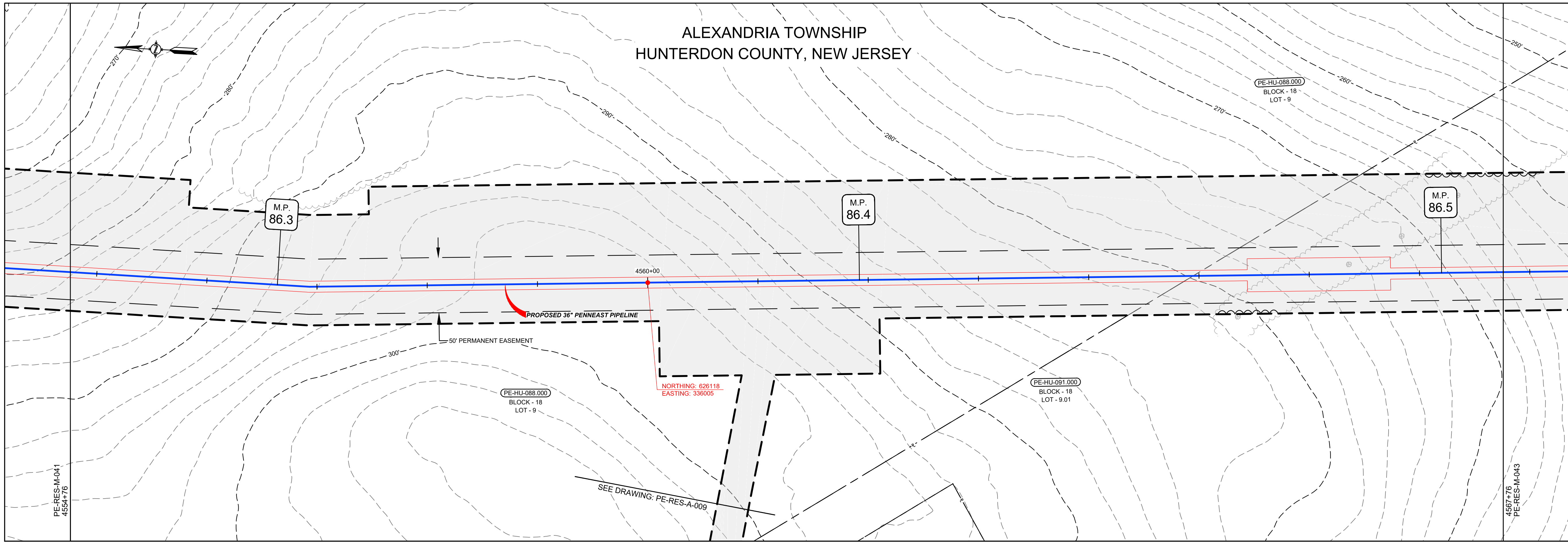
PREPARED FOR

**PennEast**  
PIPELINE

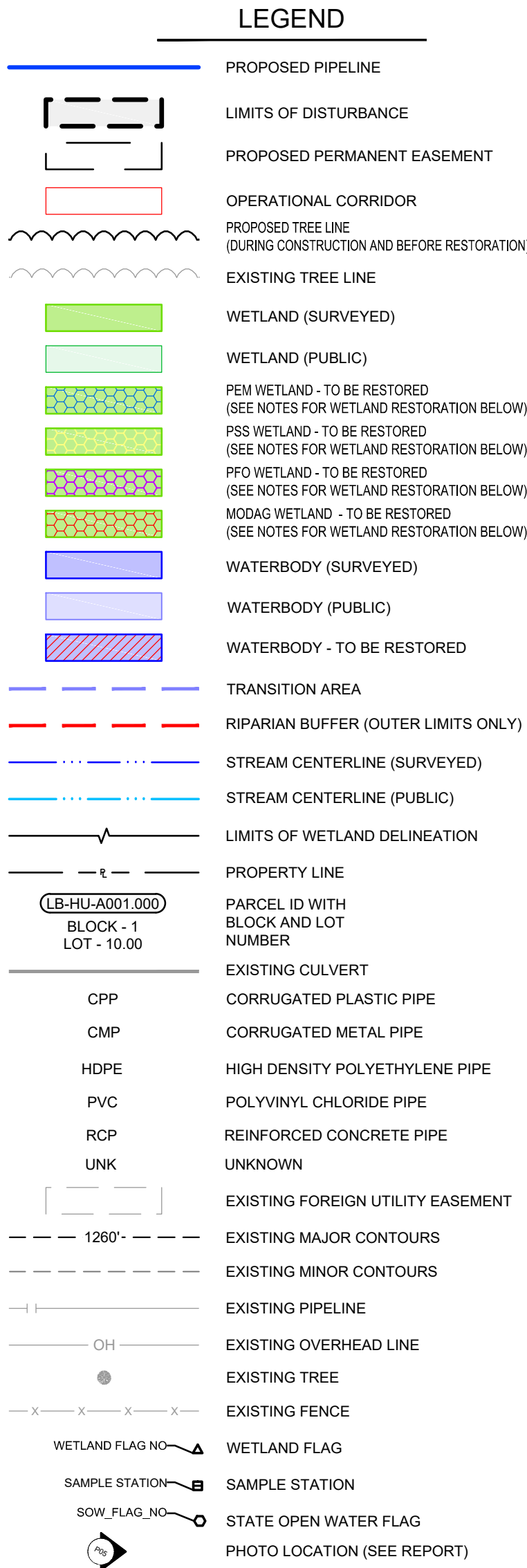
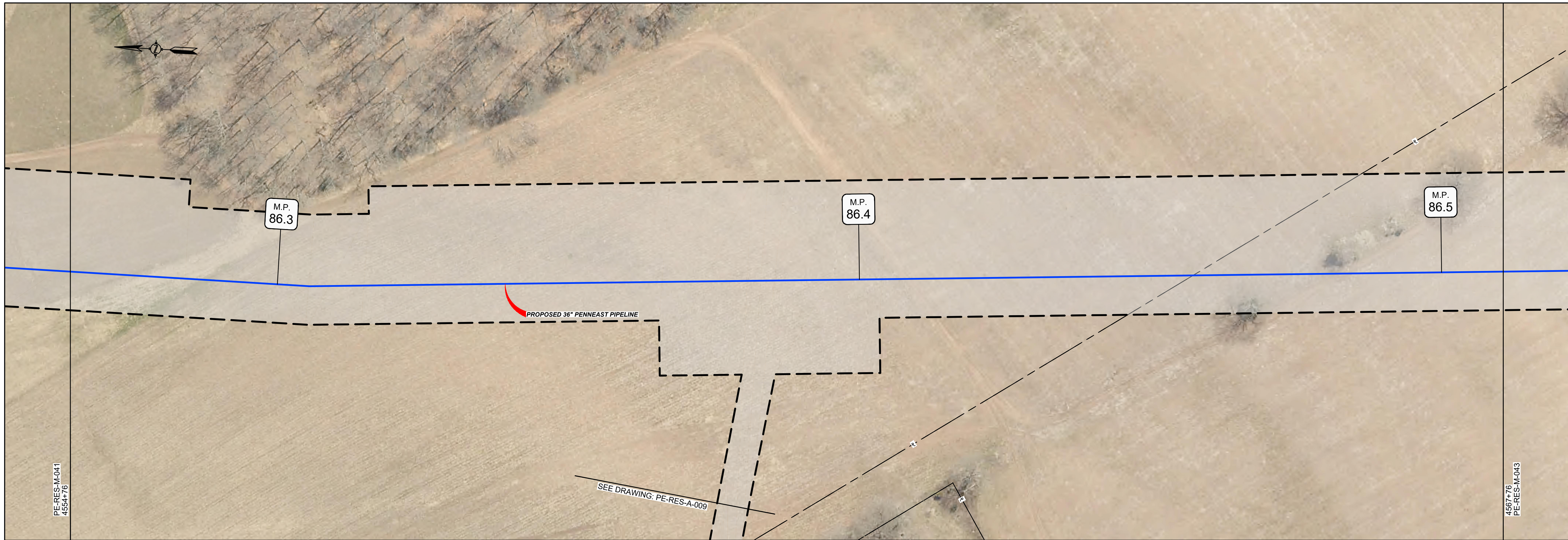
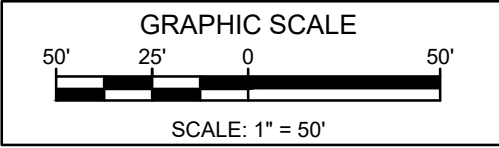
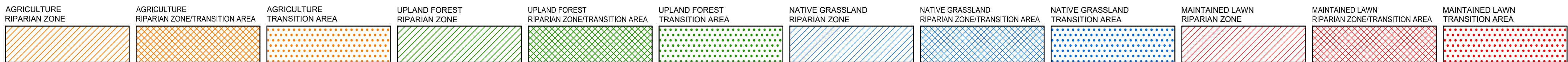
PREPARED BY **M M**  
**MOTT MACDONALD**  
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830  
CERTIFICATE NO. 24GA28016800

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 86.0 - MP 86.3		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-041	0





RIPIARIAN ZONE/TRANSITION  
AREA RESTORATION  
CATEGORIES



NOTES FOR WETLAND RESTORATION:

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*Thomas D. Strong* 08/01/2019  
SIGNATURE DATE

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REFERENCE DRAWINGS		REVISIONS			
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					CK
					APPR

APPROVALS			
DRAWN BY	DATE	CLIENT APPROVAL	DATE
RJP	7/2019		
CHECKED BY	DATE		
KEK	7/2019		
ENG. APPROVAL	DATE		
MJD	7/2019		
P.M. APPROVAL	DATE		
MW	7/2019		

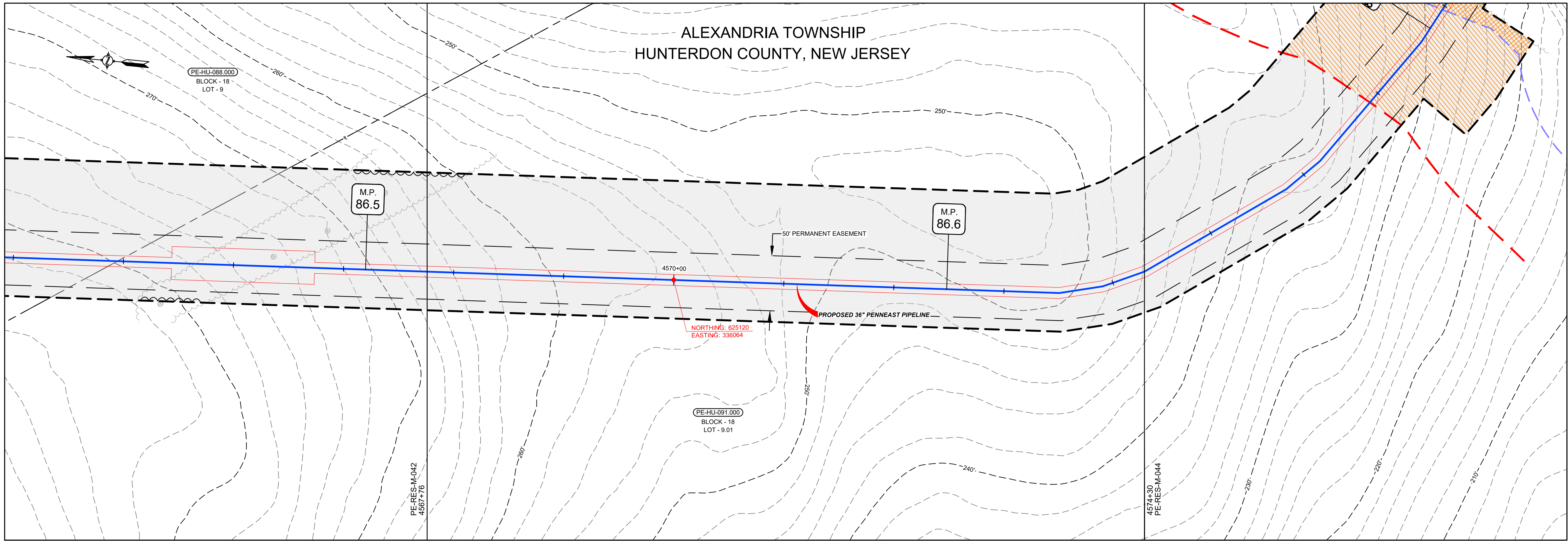
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DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

PREPARED FOR  
**PennEast**  
PIPELINE

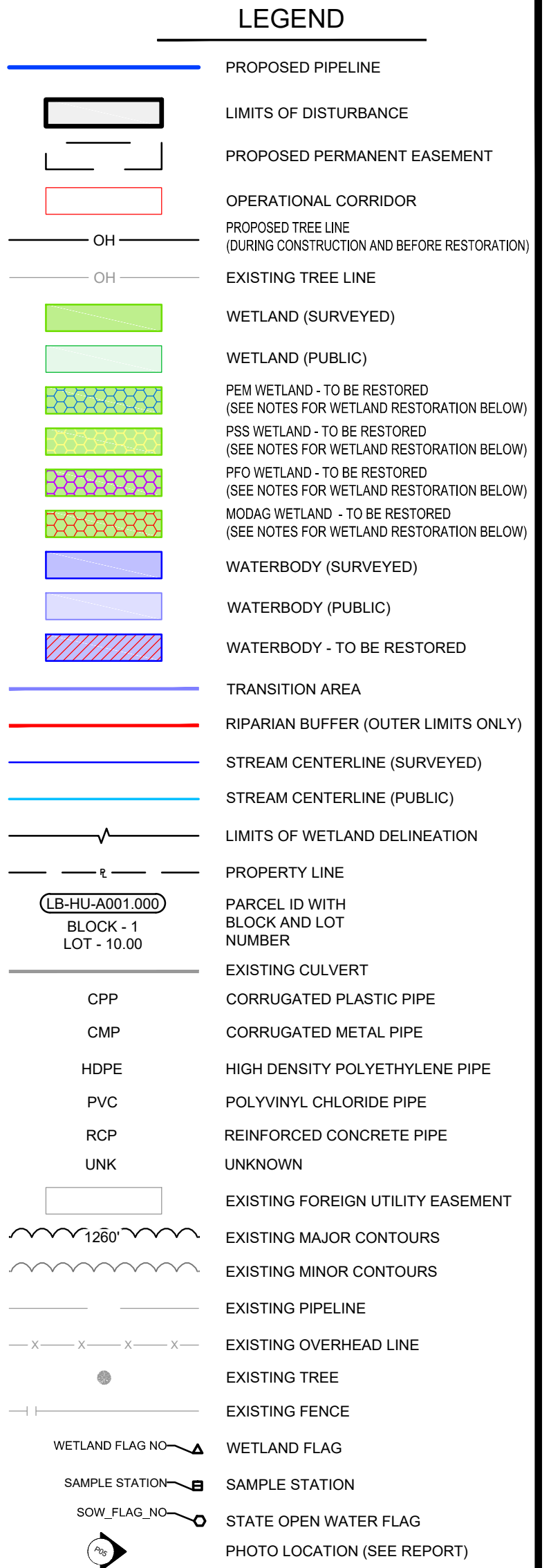
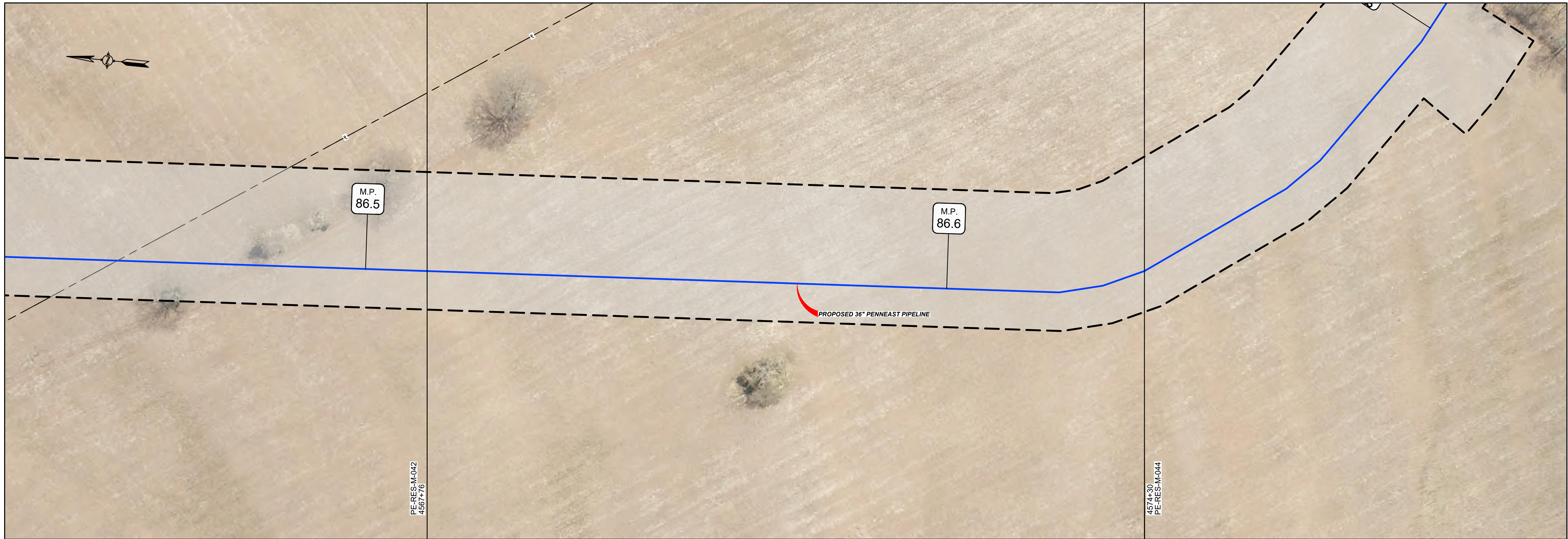
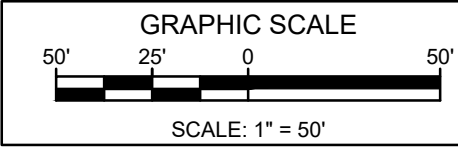
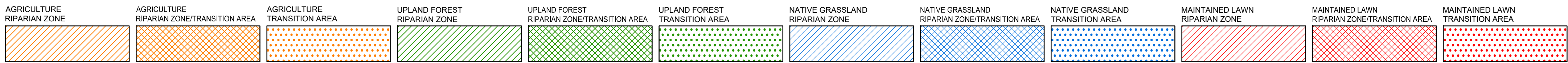
PREPARED BY  
**M M**  
MOTT  
MACDONALD  
111 WOOD AVENUE SOUTH, ISELIN, NJ 08830  
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 86.3 - MP 86.5		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-042	0





RIPIARIAN ZONE/TRANSITION  
AREA RESTORATION  
CATEGORIES



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N.J. LIC. NO. 24GS03676100

*Thomas D. Strong* 08/01/2019  
SIGNATURE DATE

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REFERENCE DRAWINGS		REVISIONS						
DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	
		0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD	

APPROVALS				CLIENT APPROVAL	DATE
DRAWN BY	DATE	CHECKED BY	DATE		
RJP	7/2019		DATE		
KEK	7/2019	ENG. APPROVAL	DATE		
MJD	7/2019	P.M. APPROVAL	DATE		
MW	7/2019				

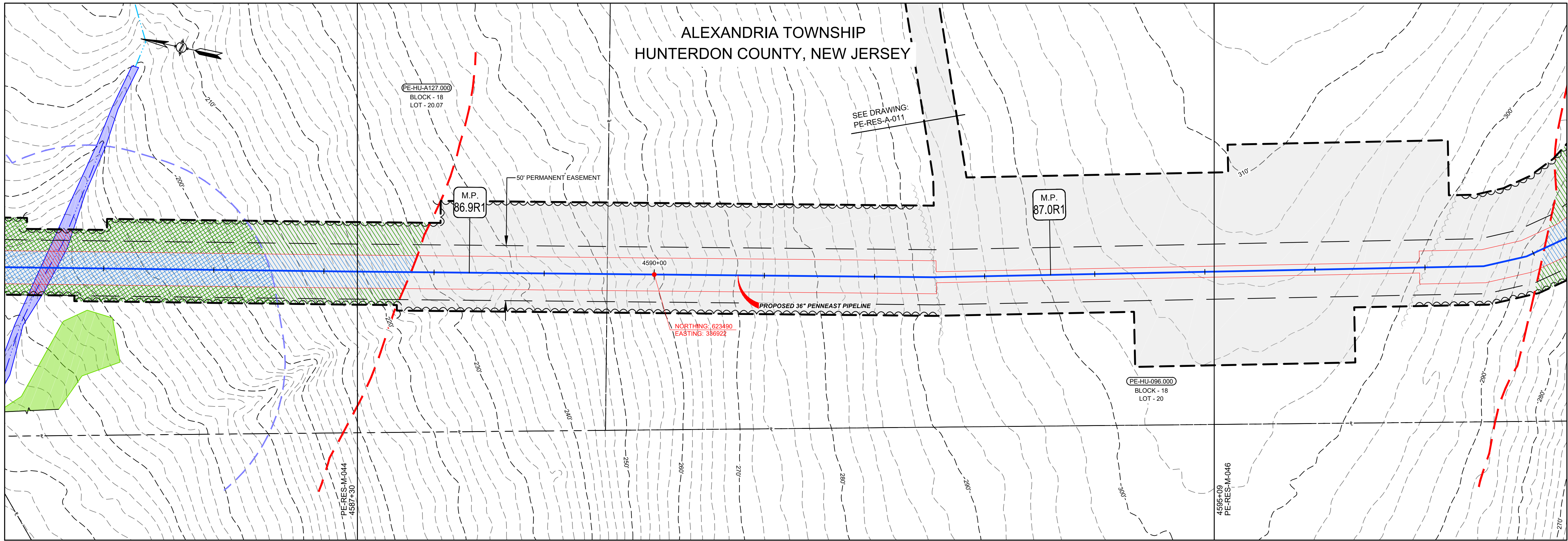
APPROVALS		CLIENT APPROVAL
DRAWN BY	DATE	
RJP	7/2019	
CHECKED BY	DATE	
KEK	7/2019	
ENG. APPROVAL	DATE	
MJD	7/2019	
P.M. APPROVAL	DATE	DATE
MW	7/2019	7/2019

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 86.5 - MP 86.6		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-043	0

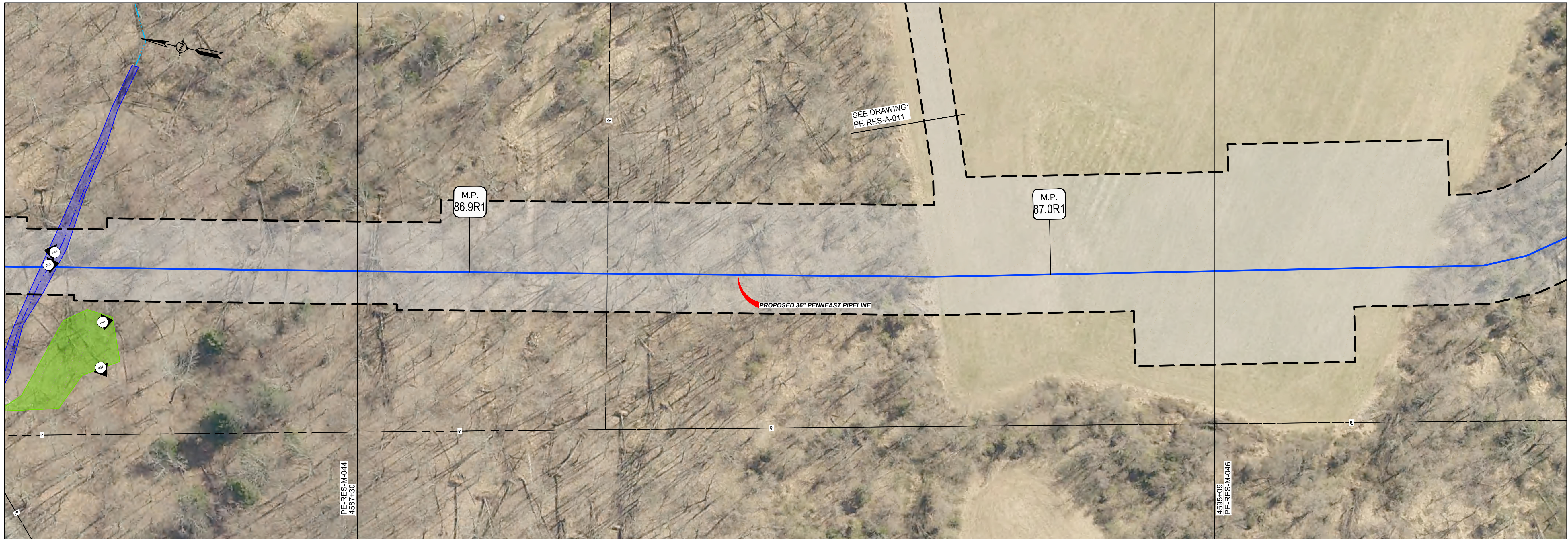
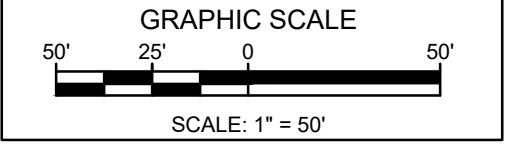
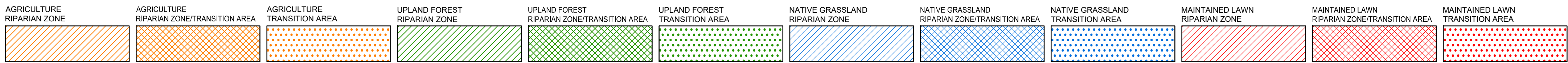








RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES



**LEGEND**

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK AND LOT NUMBER (LB-HU-A001.000)
- EXISTING CULVERT
- CPP CORRUGATED PLASTIC PIPE
- CMP CORRUGATED METAL PIPE
- HDPE HIGH DENSITY POLYETHYLENE PIPE
- PVC POLYVINYL CHLORIDE PIPE
- RCP REINFORCED CONCRETE PIPE
- UNK UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
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- EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO. WETLAND FLAG
- SAMPLE STATION SAMPLE STATION
- SOW\_FLAG\_NO STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

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REFERENCE DRAWINGS		REVISIONS						
DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	
000-03-03-067.1	* ACCESS ROAD DETAIL	0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD	

APPROVALS				CLIENT APPROVAL	
DRAWN BY	DATE				
RJP	7/2019				
CHECKED BY	DATE				
KEK	7/2019				
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APPROVALS		CLIENT APPROVAL	
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MJD	7/2019		
P.M. APPROVAL	DATE		
MW	7/2019		

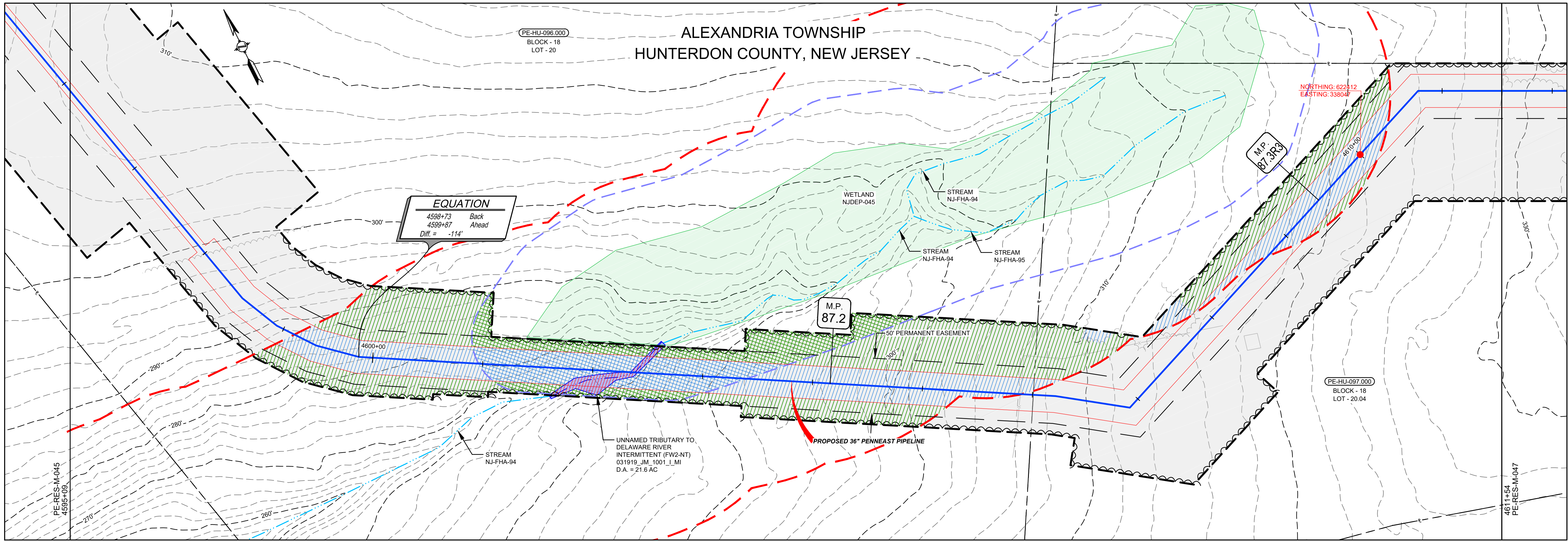
PREPARED FOR

**PennEast**  
PIPELINE

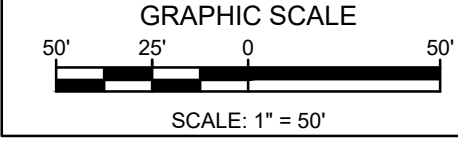
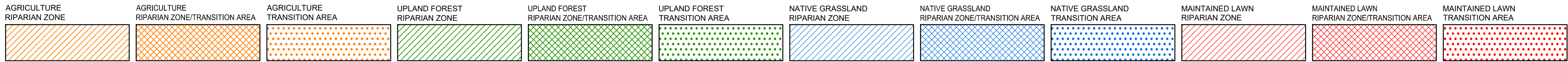
PREPARED BY **M M**  
**MOTT MACDONALD**  
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830  
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 86.9R1 - MP 87.0R1		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-045	0





RIPARIAN ZONE/TRANSITION  
AREA RESTORATION  
CATEGORIES



**LEGEND**

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- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
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- WATERBODY (PUBLIC)
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- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
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- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
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- EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
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- SAMPLE STATION SAMPLE STATION
- SOW\_FLAG\_NO STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

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I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT EXISTING CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

**THOMAS D. STRONG**  
PROFESSIONAL LAND SURVEYOR  
N.J. LIC. NO. 24G503676100

*Thomas D. Strong* 08/01/2019  
SIGNATURE DATE

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**MICHAEL J. DENICHILO**  
PROFESSIONAL ENGINEER  
N.J. LIC. NO. 24GE05078700

*Michael J. Denichilo* 08/01/2019  
SIGNATURE DATE

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  - PHOTO LOCATIONS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
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REFERENCE DRAWINGS		NO.	
DWG. NO.	TITLE	NO.	
		0	ISSUED FOR NJDEP PERMIT

REVISIONS				
REVISIONS	DATE	DRAWN	CK	APPR
	7/2019	RJP	KEK	MJD

APPROVALS	
DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL	
DATE	

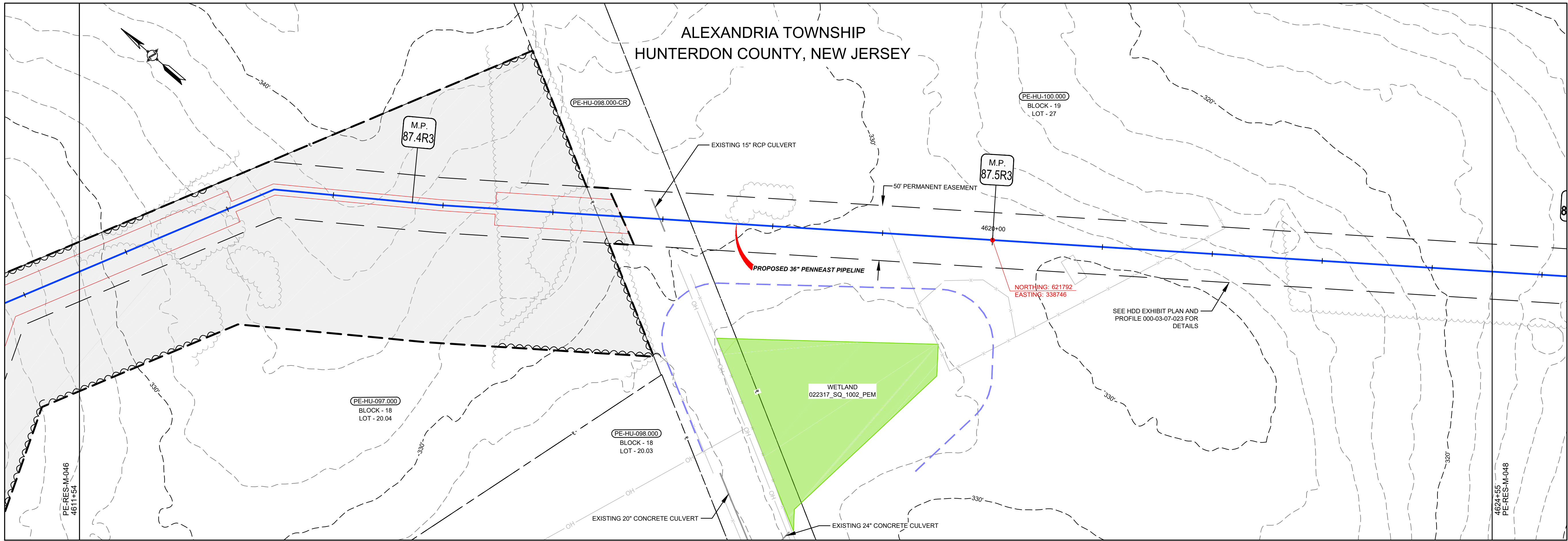
PREPARED FOR

**PennEast**  
PIPELINE

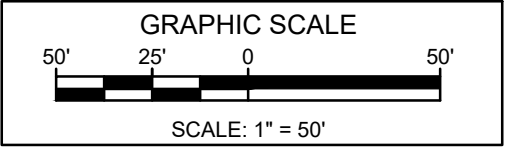
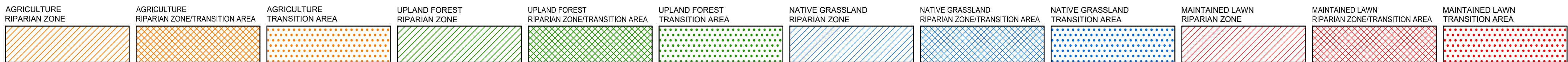
PREPARED BY **M M**  
**MOTT MACDONALD**  
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830  
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 87.0R1 - MP 87.3R3		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-046	0





RIPIARIAN ZONE/TRANSITION  
AREA RESTORATION  
CATEGORIES



**LEGEND**

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPIARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK AND LOT NUMBER
- EXISTING CULVERT
- CPP CORROGATED PLASTIC PIPE
- CMP CORROGATED METAL PIPE
- HDPE HIGH DENSITY POLYETHYLENE PIPE
- PVC POLYVINYL CHLORIDE PIPE
- RCP REINFORCED CONCRETE PIPE
- UNK UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO.
- WETLAND FLAG
- SAMPLE STATION
- SAMPLE STATION
- SOW\_FLAG\_NO.
- STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

NOTES FOR WETLAND RESTORATION:

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**THOMAS D. STRONG**  
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N.J. LIC. NO. 24GS03676100

*Thomas D. Strong* 08/01/2019  
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REFERENCE DRAWINGS		NO.	
DWG. NO.	TITLE		
000-03-07-023	* HDD EXHIBIT PLAN AND PROFILE	0	ISSUED FOR NJDEP PERMIT

REVISIONS						
NO.	REVISIONS	DATE	DRAWN	CK	APPR	
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD	

APPROVALS	
DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL	
DATE	

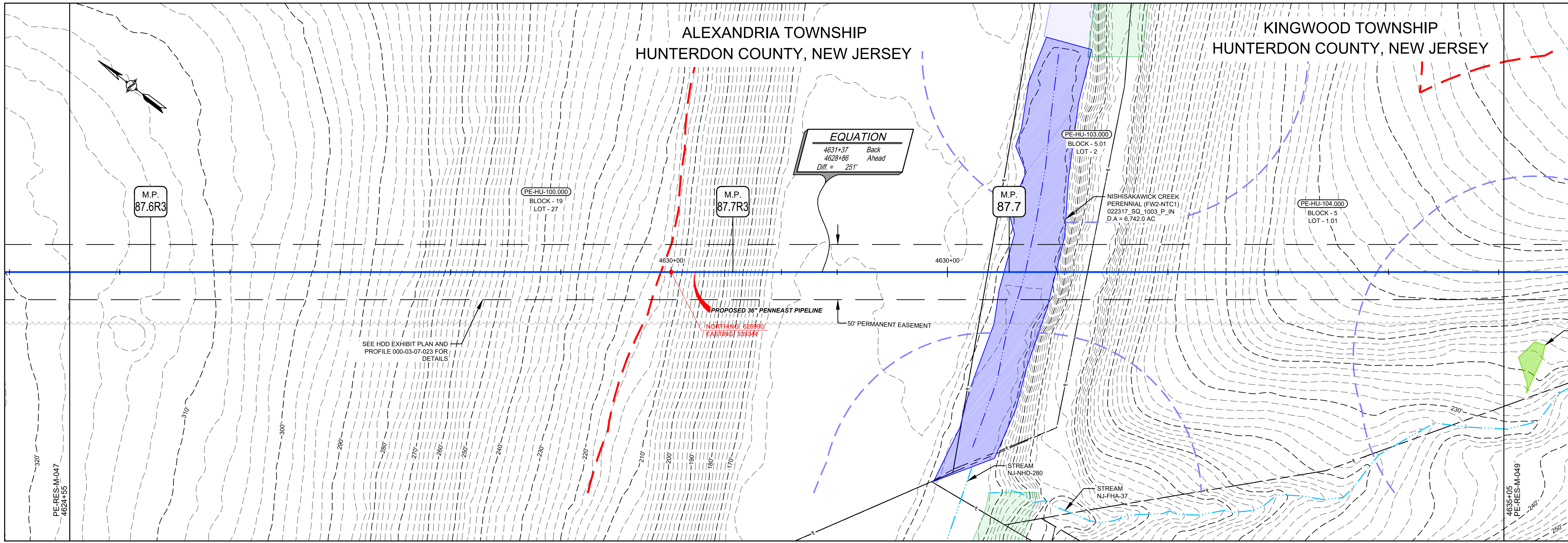
PREPARED FOR

**PennEast**  
PIPELINE

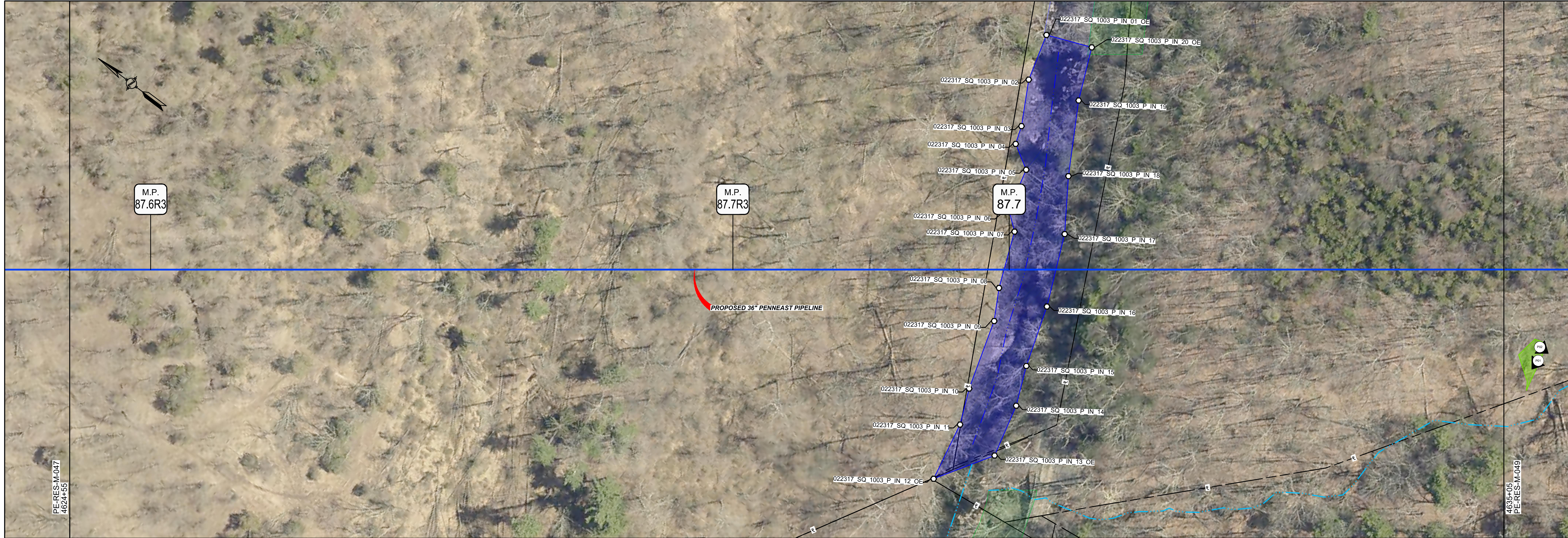
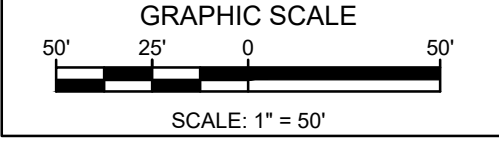
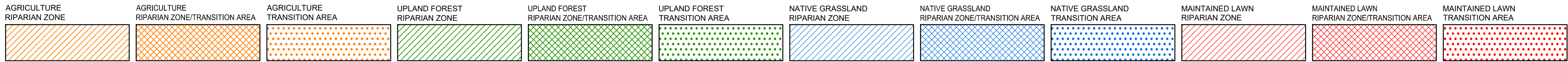
PREPARED BY **M M**  
**MOTT MACDONALD**  
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830  
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 87.3R3 - MP 87.6R3		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-047	0





RIPIARIAN ZONE/TRANSITION  
AREA RESTORATION  
CATEGORIES



**LEGEND**

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPIARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK AND LOT NUMBER
- EXISTING CULVERT
- CORRUGATED PLASTIC PIPE
- CORRUGATED METAL PIPE
- HDPPE
- POLYETHYLENE PIPE
- PVC
- POLYVINYL CHLORIDE PIPE
- RCP
- REINFORCED CONCRETE PIPE
- UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO.
- WETLAND FLAG
- SAMPLE STATION
- SAMPLE STATION
- SOW\_FLAG\_NO.
- STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

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PROFESSIONAL LAND SURVEYOR  
N.J. LIC. NO. 24GS03676100

*Thomas D. Strong* 08/01/2019  
SIGNATURE DATE

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PROFESSIONAL ENGINEER  
N.J. LIC. NO. 24GE05078700

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REFERENCE DRAWINGS		REVISIONS	
DWG. NO.	TITLE	NO.	REVISIONS
000-03-07-023	* HDD EXHIBIT PLAN AND PROFILE	0	ISSUED FOR NJDEP PERMIT

APPROVALS			
DRAWN BY	DATE	CLIENT APPROVAL	DATE
RJP	7/2019		
CHECKED BY	DATE	DATE	DATE
KEK	7/2019		
ENG. APPROVAL	DATE	DATE	DATE
MJD	7/2019		
P.M. APPROVAL	DATE	DATE	DATE
MW	7/2019		

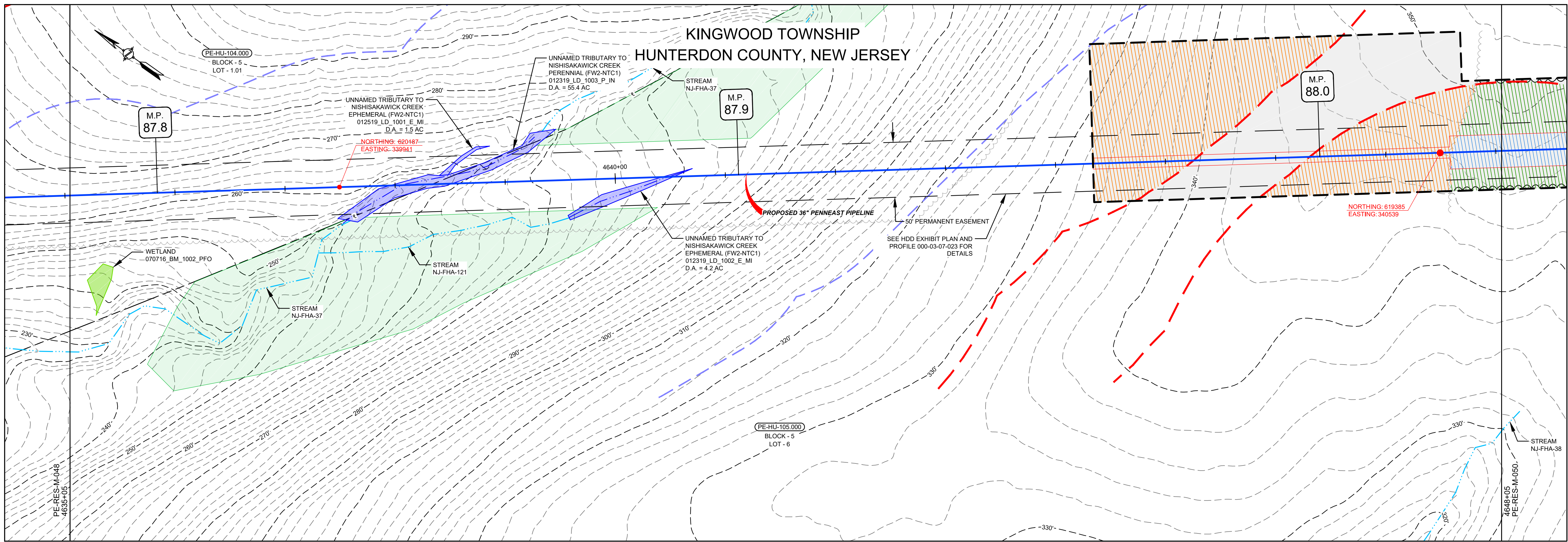
APPROVALS	
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MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

PREPARED FOR  
**PennEast**  
PIPELINE

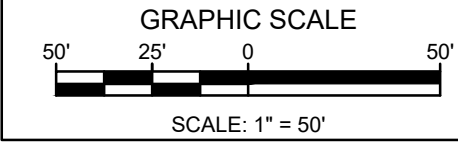
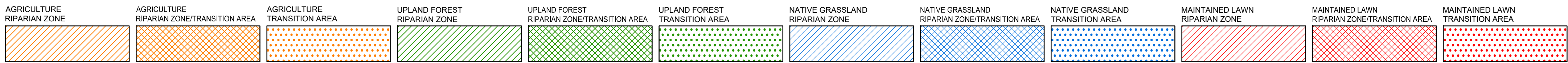
PREPARED BY  
**M M**  
MOTT  
MACDONALD  
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08850  
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 87.6R3 - MP 87.8		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-048	0





**RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES**



**LEGEND**

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK AND LOT NUMBER
- EXISTING CULVERT
- CORRUGATED PLASTIC PIPE
- CORRUGATED METAL PIPE
- HDPPE
- HIGH DENSITY POLYETHYLENE PIPE
- PVC
- POLYVINYL CHLORIDE PIPE
- RCP
- REINFORCED CONCRETE PIPE
- UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO.
- WETLAND FLAG
- SAMPLE STATION
- SAMPLE STATION
- SOW\_FLAG\_NO.
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DWG. NO.	TITLE												
000-03-07-023	* HDD EXHIBIT PLAN AND PROFILE	0		ISSUED FOR NJDEP PERMIT		7/2019		RJP		KEK		MJD	

APPROVALS		DATE		CLIENT APPROVAL		DATE	
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MJD		7/2019					
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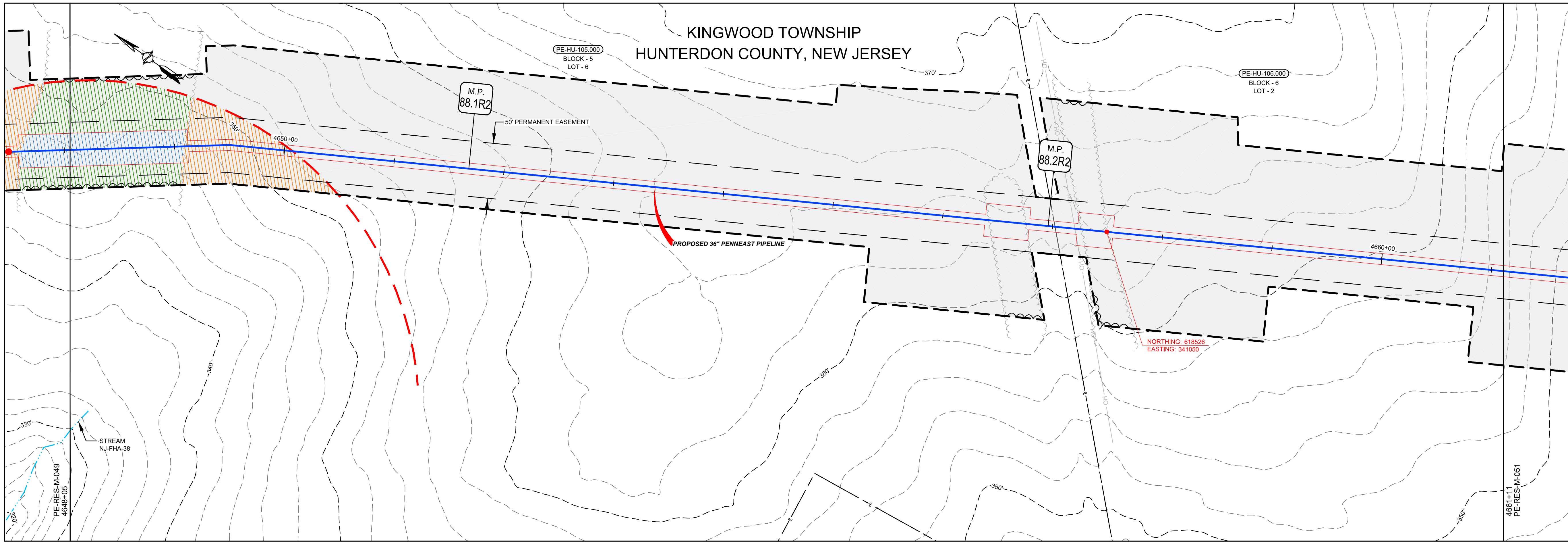
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ENG. APPROVAL			
MJD		7/2019	
P.M. APPROVAL			
MW		7/2019	

PREPARED FOR  
**PennEast**  
PIPELINE

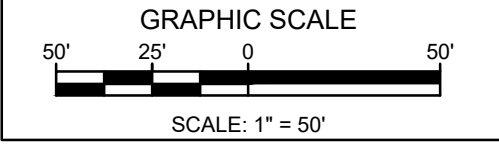
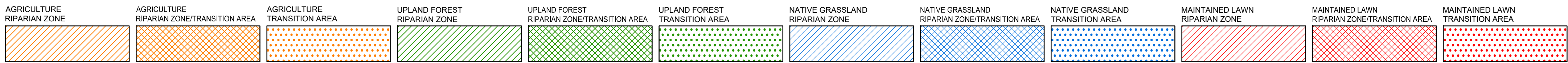
PREPARED BY  
**M M**  
MOTT  
MACDONALD  
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830  
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 87.8 - MP 88.0		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-049	0





**RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES**



**LEGEND**

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
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- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK - 1 LOT - 10.00
- EXISTING CULVERT
- CPP CORRUGATED PLASTIC PIPE
- CMP CORRUGATED METAL PIPE
- HDPE HIGH DENSITY POLYETHYLENE PIPE
- PVC POLYVINYL CHLORIDE PIPE
- RCP REINFORCED CONCRETE PIPE
- UNK UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO. WETLAND FLAG
- SAMPLE STATION SAMPLE STATION
- SOW\_FLAG\_NO STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

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*Thomas D. Strong* 08/01/2019  
SIGNATURE DATE

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**MICHAEL J. DENICHILO**  
PROFESSIONAL ENGINEER  
N.J. LIC. NO. 24GE05078700

*Michael J. Denichilo* 08/01/2019  
SIGNATURE DATE

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  - WETLAND AND WATERBODY DELINEATION SURVEYS COMPLETED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
  - PHOTO LOCATIONS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.
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  - RESTORATION METHODS AND HATCHING SHOWN ON PLANS PROVIDED BY AMY S. GREENE ENVIRONMENTAL CONSULTANTS.

REFERENCE DRAWINGS		REVISIONS							APPROVALS	
DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR		DRAWN BY	DATE
		0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD		RJP	7/2019
									CHECKED BY	DATE
									KEK	7/2019
									ENG. APPROVAL	DATE
									MJD	7/2019
									P.M. APPROVAL	DATE
									MW	7/2019

PREPARED FOR

**PennEast**  
PIPELINE

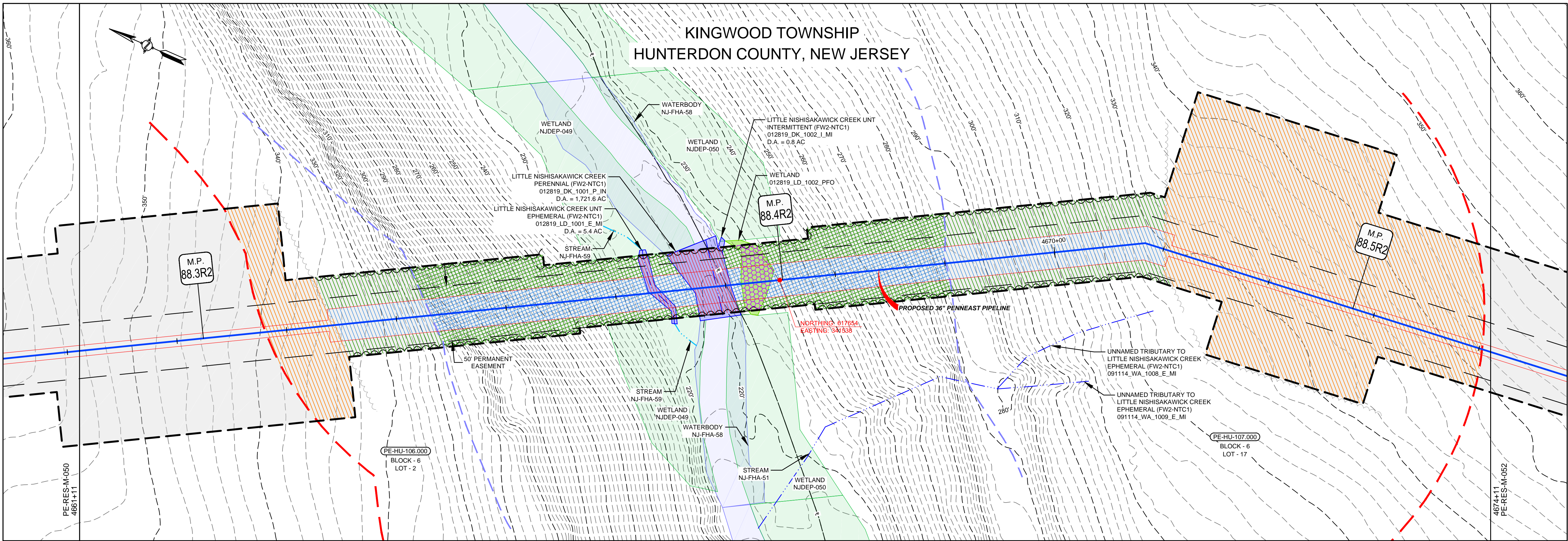
PREPARED BY **M M**  
**MOTT MACDONALD**  
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830  
CERTIFICATE NO. 24GA28016600

**PENNEAST PIPELINE PROJECT**

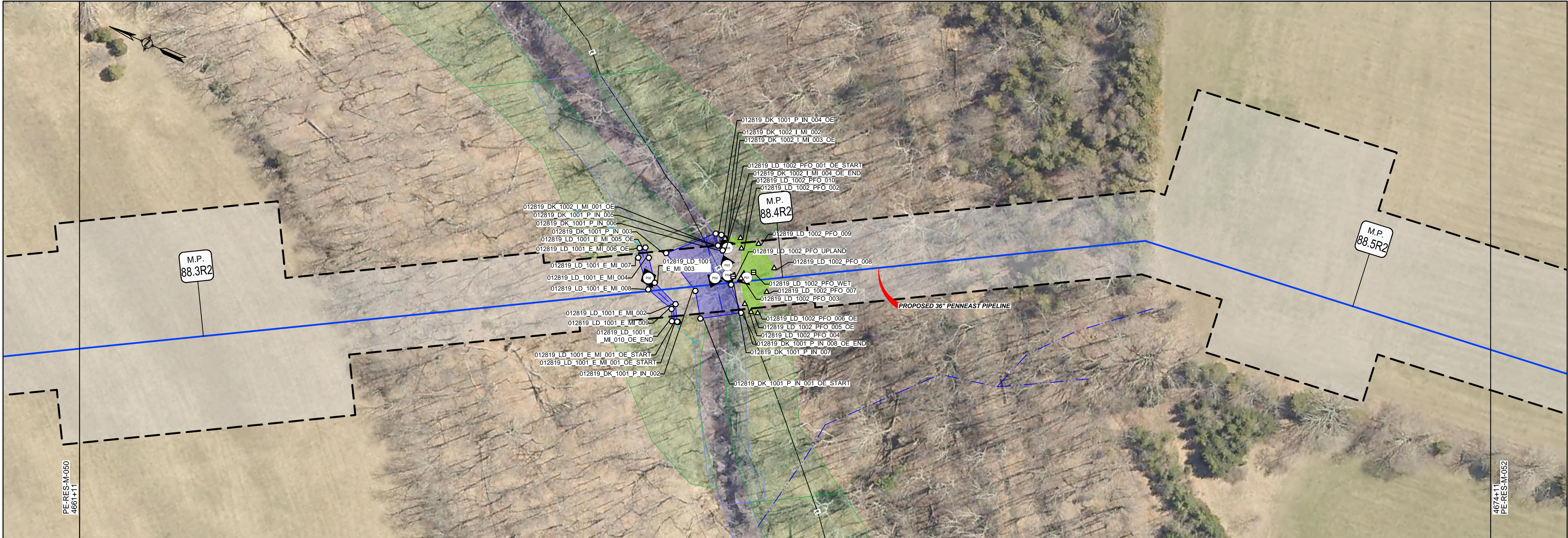
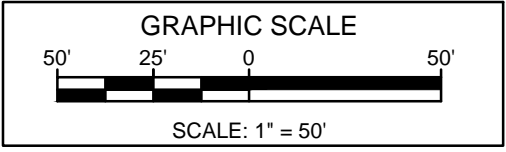
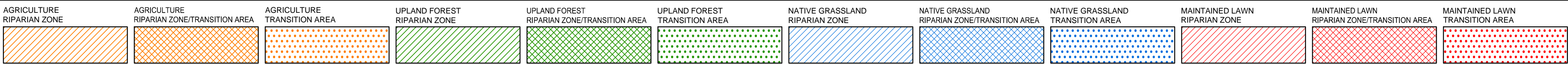
**PENNEAST PIPELINE RESTORATION PERMIT PLAN**  
**MP 88.0 - MP 88.3R2**

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-050	0





RIPIARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES



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DWG. NO.	TITLE	NO.	ISSUED FOR NJDEP PERMIT	DATE	DRAWN	CK	APPR
		0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD

APPROVALS		DATE	
DRAWN BY	RJP	7/2019	
CHECKED BY	KEK	7/2019	
ENG. APPROVAL	MJD	7/2019	
P.M. APPROVAL	MW	7/2019	

APPROVALS		DATE	
DRAWN BY	RJP	7/2019	
CHECKED BY	KEK	7/2019	
ENG. APPROVAL	MJD	7/2019	
P.M. APPROVAL	MW	7/2019	

APPROVALS		DATE	
DRAWN BY	RJP	7/2019	
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ENG. APPROVAL	MJD	7/2019	
P.M. APPROVAL	MW	7/2019	

APPROVALS		DATE	
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P.M. APPROVAL	MW	7/2019	

APPROVALS		DATE	
DRAWN BY	RJP	7/2019	
CHECKED BY	KEK	7/2019	
ENG. APPROVAL	MJD	7/2019	
P.M. APPROVAL	MW	7/2019	

**LEGEND**

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPIARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK - 1 LOT - 10.00
- EXISTING CULVERT
- CORRUGATED PLASTIC PIPE
- CORRUGATED METAL PIPE
- HDPE
- PVC
- RCP
- UNK
- EXISTING FOREIGN UTILITY EASEMENT
- 1260'
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO.
- WETLAND FLAG
- SAMPLE STATION
- SAMPLE STATION
- STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

**NOTES FOR WETLAND RESTORATION:**

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS\*

PSS WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PSS WETLANDS. PSS WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

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I AM A DULY REGISTERED PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I HEREBY CERTIFY THAT THE PROPOSED CONDITIONS SHOWN WERE FIELD LOCATED AND PREPARED UNDER MY DIRECT SUPERVISION.

**THOMAS D. STRONG**  
PROFESSIONAL LAND SURVEYOR  
N.J. LIC. NO. 24GS03676100

08/01/2019

SIGNATURE DATE

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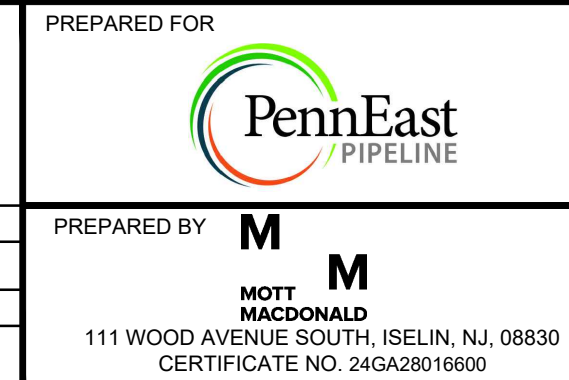
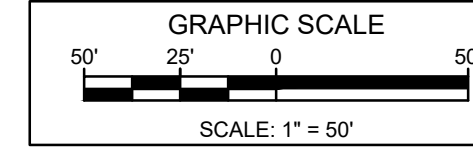
**MICHAEL J. DENICHILO**  
PROFESSIONAL ENGINEER  
N.J. LIC. NO. 24GE05078700

08/01/2019

SIGNATURE DATE

PENNEAST PIPELINE PROJECT		DATE	
PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 88.3R2 - MP 88.5R2		SCALE	DRAWING NO.
		1" = 50'	PE-RES-M-051
		REVISION	0





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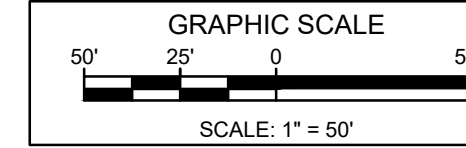
**MICHAEL J. DENICHILO**  
PROFESSIONAL ENGINEER  
N.J. LIC. NO. 24606080700

*Michael J. Denichilo* 08/01/2019

SIGNATURE DATE

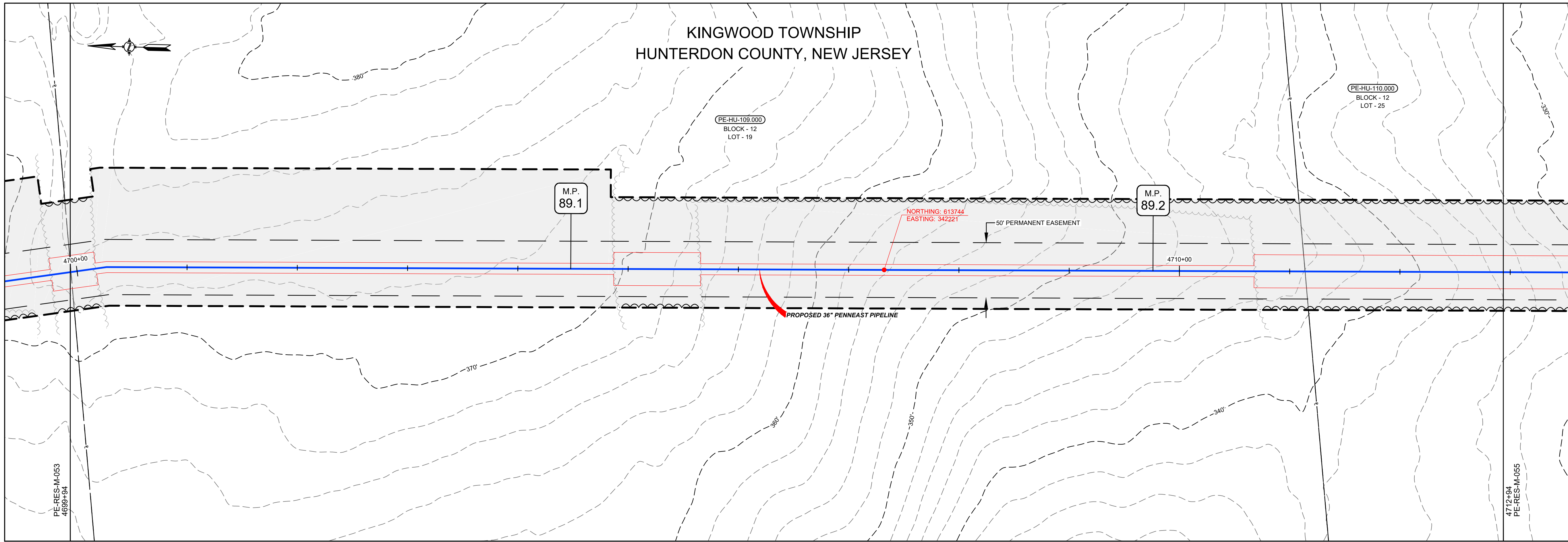
PENNEAST PIPELINE PROJECT		
<p align="center"><b>PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 88.5R2 - MP 88.8</b></p>		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-052	0



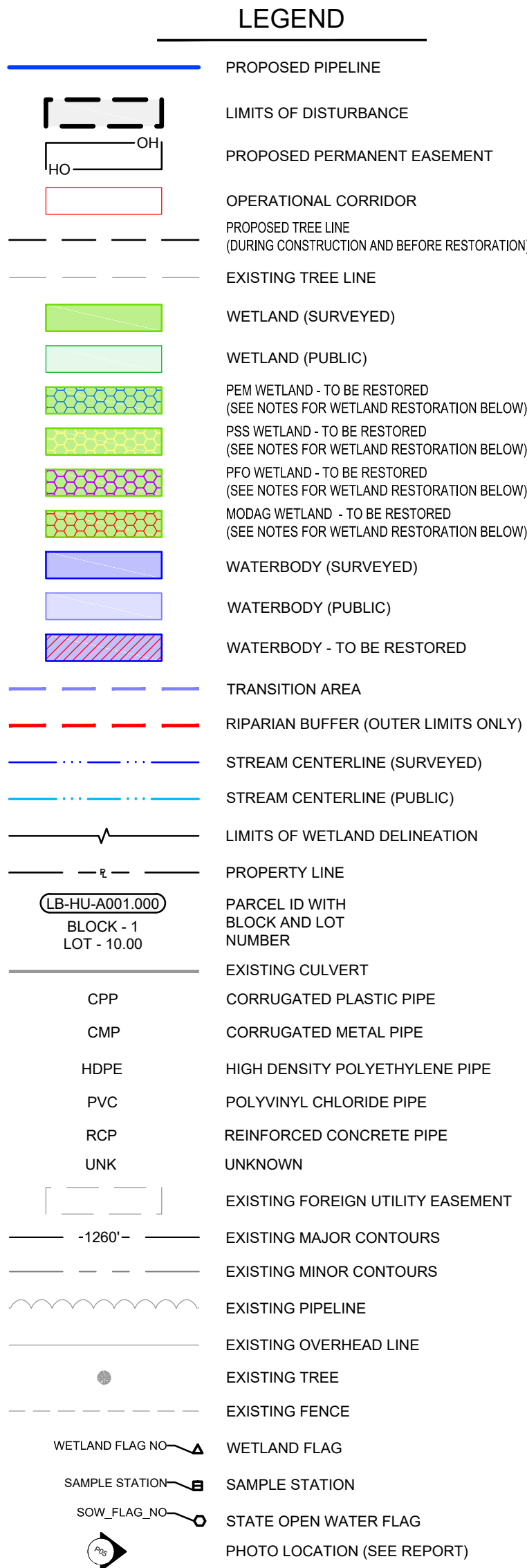
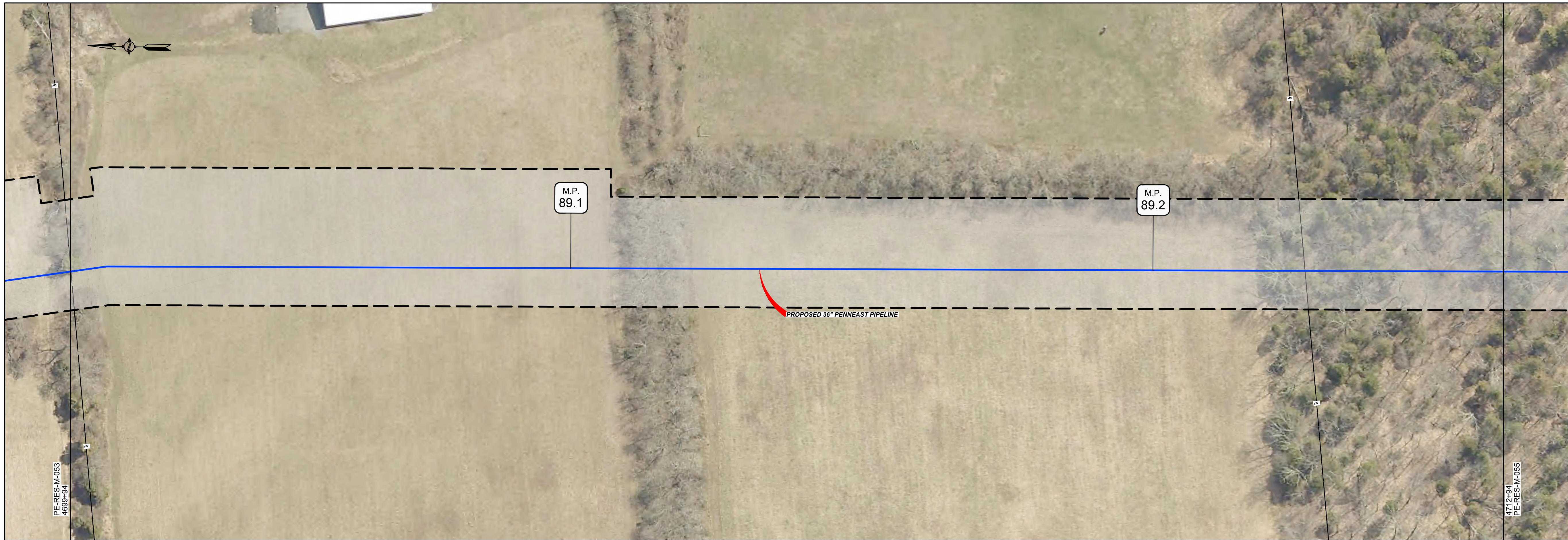
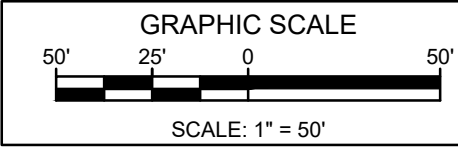
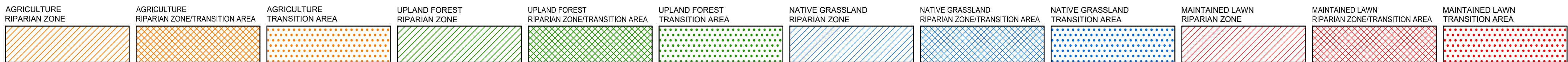


PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 88.8 - MP 89.0		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-053	0





RIPIARIAN ZONE/TRANSITION  
AREA RESTORATION  
CATEGORIES



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**THOMAS D. STRONG**  
PROFESSIONAL LAND SURVEYOR  
N.J. LIC. NO. 24GS03676100

SIGNATURE: *Thomas D. Strong* DATE: 08/01/2019

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DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR		DRAWN BY	DATE
		0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD		RJP	7/2019
									CHECKED BY	DATE
									KEK	7/2019
									ENG. APPROVAL	DATE
									MJD	7/2019
									P.M. APPROVAL	DATE
									MW	7/2019

PREPARED FOR  
**PennEast**  
PIPELINE

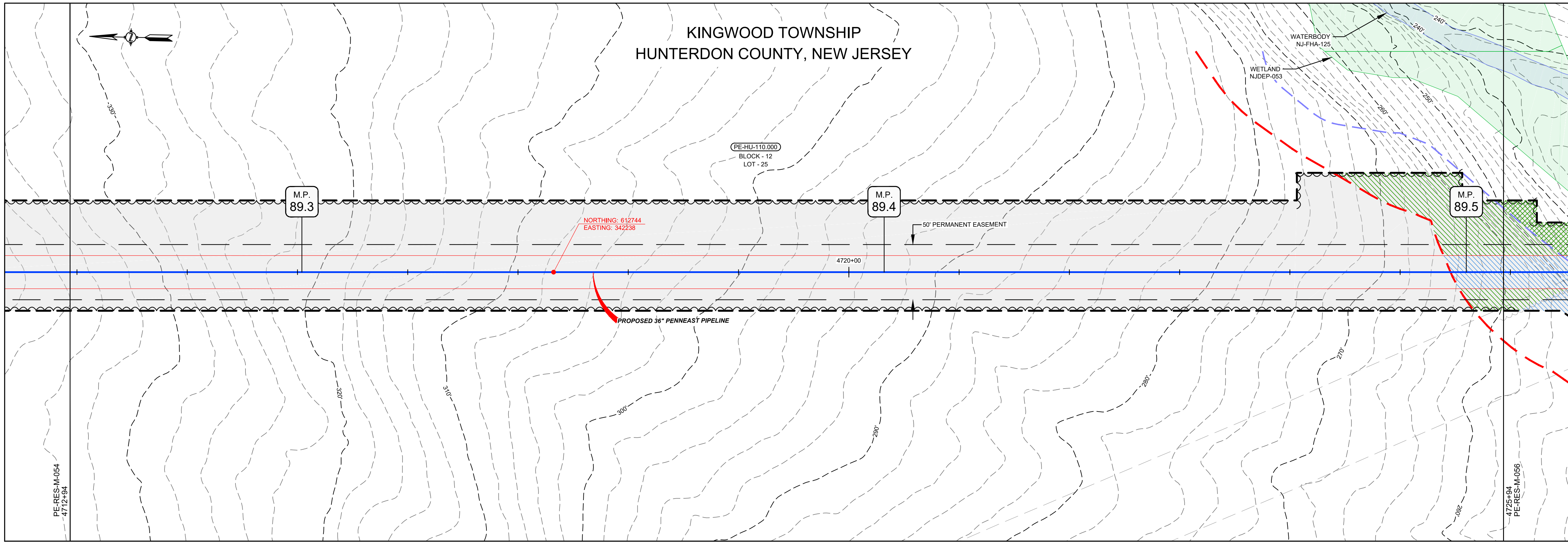
PREPARED BY  
**MOTT MACDONALD**  
111 WOOD AVENUE SOUTH, ISELIN, NJ 08830  
CERTIFICATE NO. 24GA28016600

PENNEAST PIPELINE PROJECT

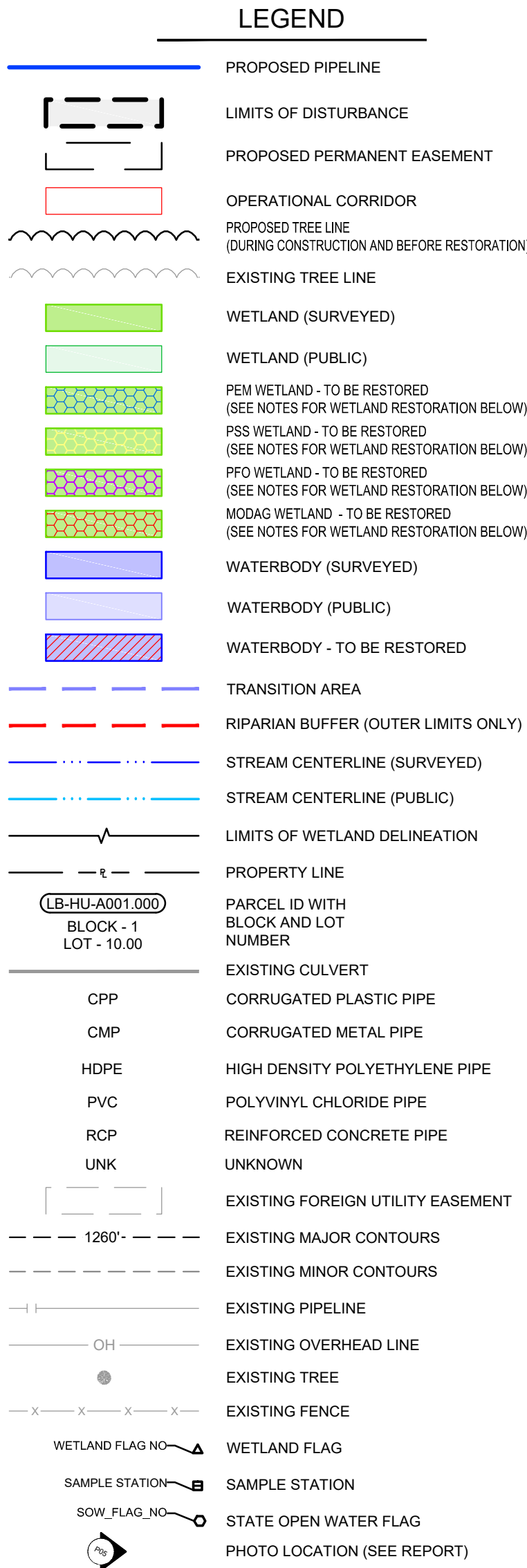
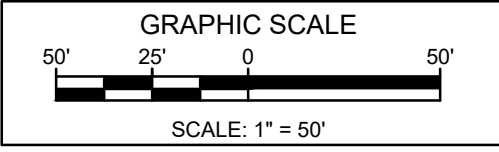
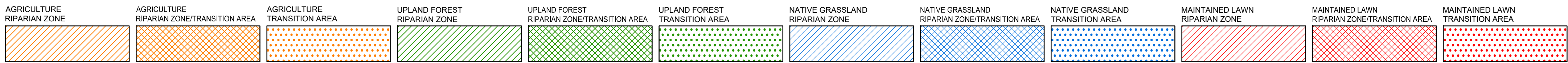
**PENNEAST PIPELINE  
RESTORATION PERMIT PLAN  
MP 89.0 - MP 89.3**

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-054	0





RIPIARIAN ZONE/TRANSITION  
AREA RESTORATION  
CATEGORIES



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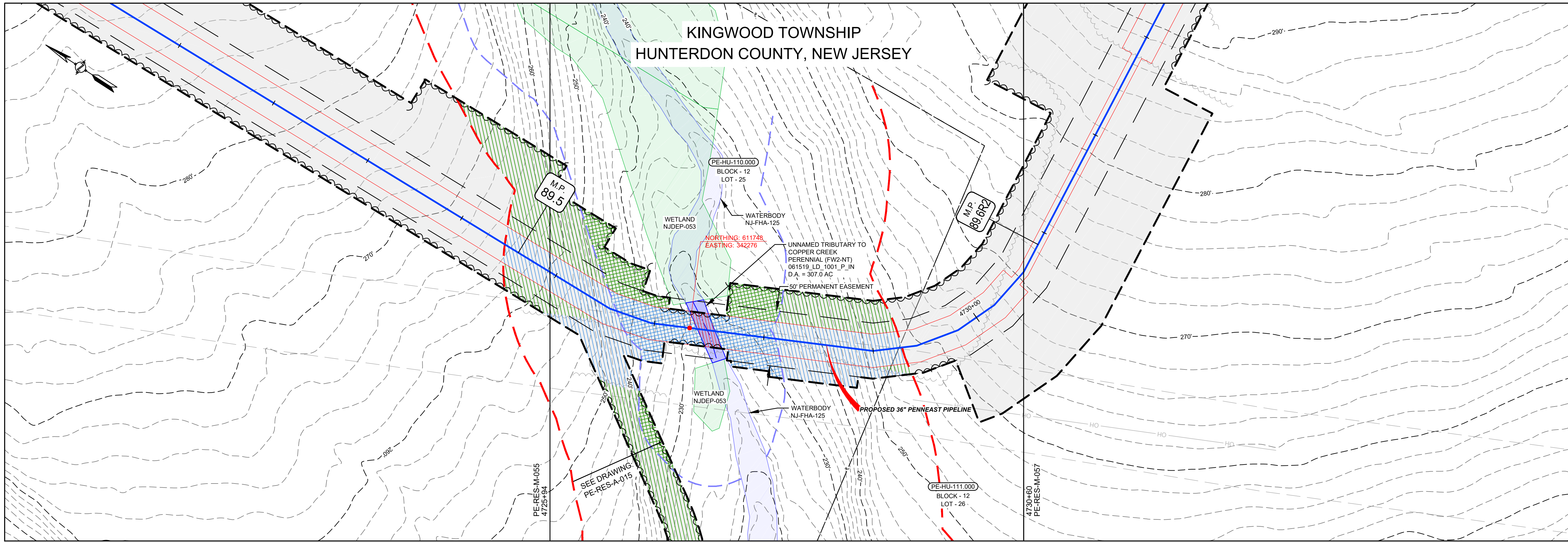
REFERENCE DRAWINGS		REVISIONS						
DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN	CK	APPR	
		0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD	

APPROVALS		CLIENT APPROVAL	
DRAWN BY	DATE	DATE	
RJP	7/2019		
CHECKED BY	DATE		
KEK	7/2019		
ENG. APPROVAL	DATE		
MJD	7/2019		
P.M. APPROVAL	DATE		
MW	7/2019		

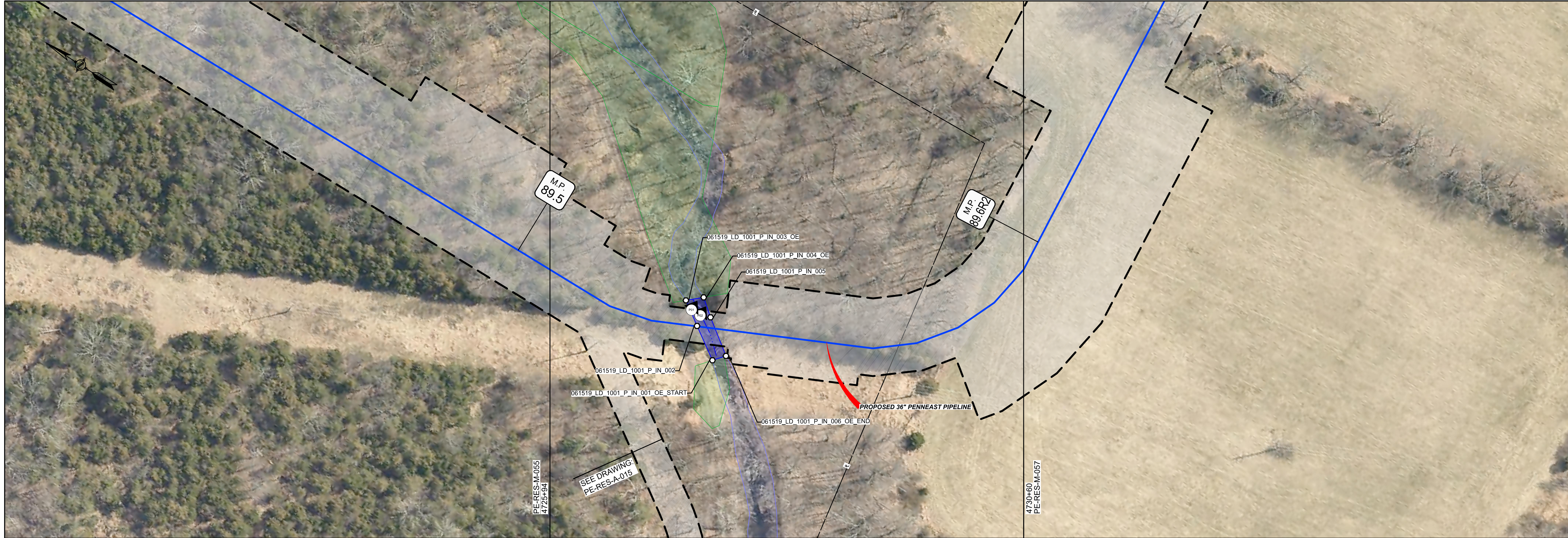
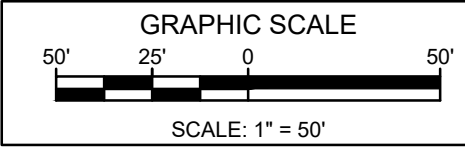
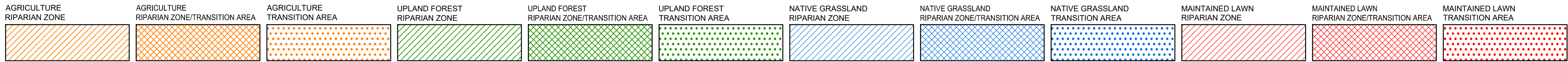
PREPARED FOR		PREPARED BY	
PennEast PIPELINE		MOTT MACDONALD	
		111 WOOD AVENUE SOUTH, ISELIN, NJ 08830 CERTIFICATE NO. 24GA28016600	

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 89.3 - MP 89.5		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-055	0





RIPIARIAN ZONE/TRANSITION  
AREA RESTORATION  
CATEGORIES



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REFERENCE DRAWINGS		NO.	
DWG. NO.	TITLE	NO.	REVISIONS
000-03-03-068	* ACCESS ROAD DETAIL	0	ISSUED FOR NJDEP PERMIT

REVISIONS					APPROVALS			
DATE	DRAWN	CK	APPR		DRAWN BY	DATE		
7/2019	RJP	KEK	MJD		RJP	7/2019		
					CHECKED BY	DATE		
					KEK	7/2019		
					ENG. APPROVAL	DATE		
					MJD	7/2019		
					P.M. APPROVAL	DATE		
					MW	7/2019		

APPROVALS		CLIENT APPROVAL	DATE
DRAWN BY	DATE		
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MW	7/2019		

PREPARED FOR	
PREPARED BY	
111 WOOD AVENUE SOUTH, ISELIN, NJ, 08830 CERTIFICATE NO. 24GA28016600	

LEGEND	
	PROPOSED PIPELINE
	LIMITS OF DISTURBANCE
	PROPOSED PERMANENT EASEMENT
	OPERATIONAL CORRIDOR
	PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
	EXISTING TREE LINE
	WETLAND (SURVEYED)
	WETLAND (PUBLIC)
	PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
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	PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	WATERBODY (SURVEYED)
	WATERBODY (PUBLIC)
	WATERBODY - TO BE RESTORED
	TRANSITION AREA
	RIPIARIAN BUFFER (OUTER LIMITS ONLY)
	STREAM CENTERLINE (SURVEYED)
	STREAM CENTERLINE (PUBLIC)
	LIMITS OF WETLAND DELINEATION
	PROPERTY LINE
	PARCEL ID WITH BLOCK - 1 LOT - 10.00
	EXISTING CULVERT
	CORRUGATED PLASTIC PIPE
	CORRUGATED METAL PIPE
	HIGH DENSITY POLYETHYLENE PIPE
	POLYVINYL CHLORIDE PIPE
	REINFORCED CONCRETE PIPE
	UNKNOWN
	EXISTING FOREIGN UTILITY EASEMENT
	EXISTING MAJOR CONTOURS
	EXISTING MINOR CONTOURS
	EXISTING PIPELINE
	EXISTING OVERHEAD LINE
	EXISTING TREE
	EXISTING FENCE
	WETLAND FLAG NO.
	SAMPLE STATION
	SOW FLAG NO.
	STATE OPEN WATER FLAG
	PHOTO LOCATION (SEE REPORT)

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WITH THE DETAILED ENGINEERING DRAWINGS.

**THOMAS D. STRONG**  
PROFESSIONAL LAND SURVEYOR  
N.J. LIC. NO. 24GS03676100

SIGNATURE

08/01/2019  
DATE

I AM A DULY REGISTERED PROFESSIONAL ENGINEER  
UNDER THE LAWS OF THE STATE OF NEW JERSEY AND I  
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DISTURBANCES SHOWN ARE ACCURATE AND CORRESPOND  
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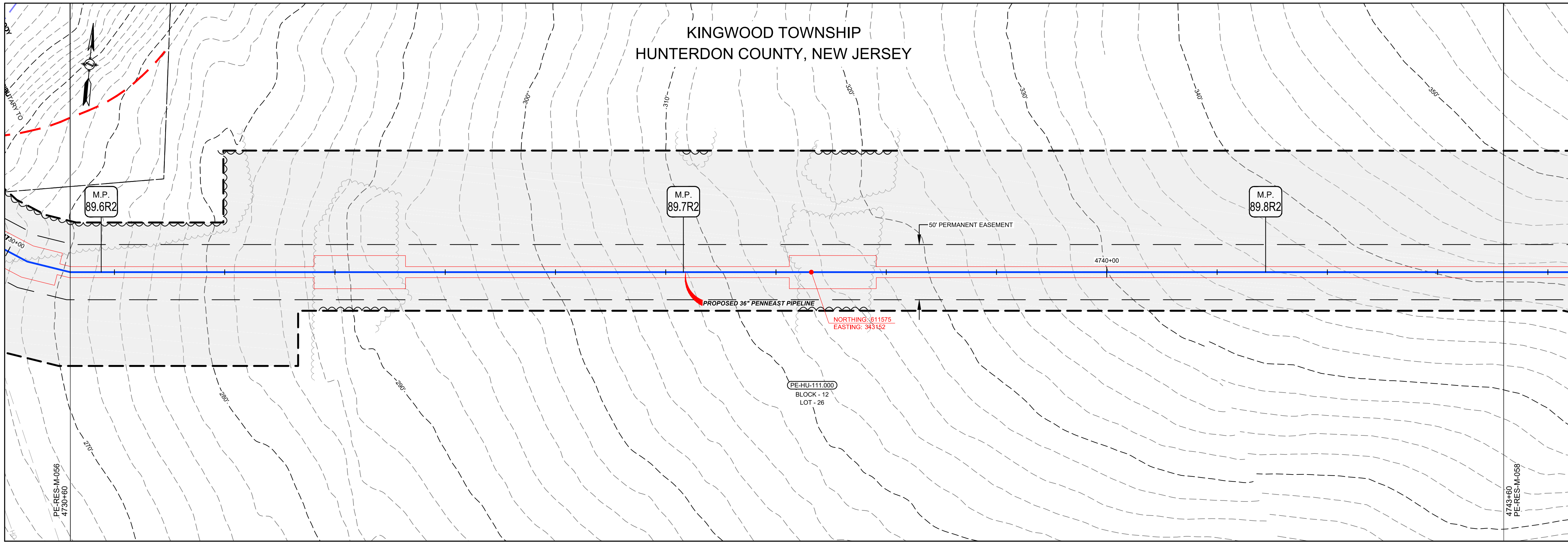
**MICHAEL J. DENICHILO**  
PROFESSIONAL ENGINEER  
N.J. LIC. NO. 24GE05078700

SIGNATURE

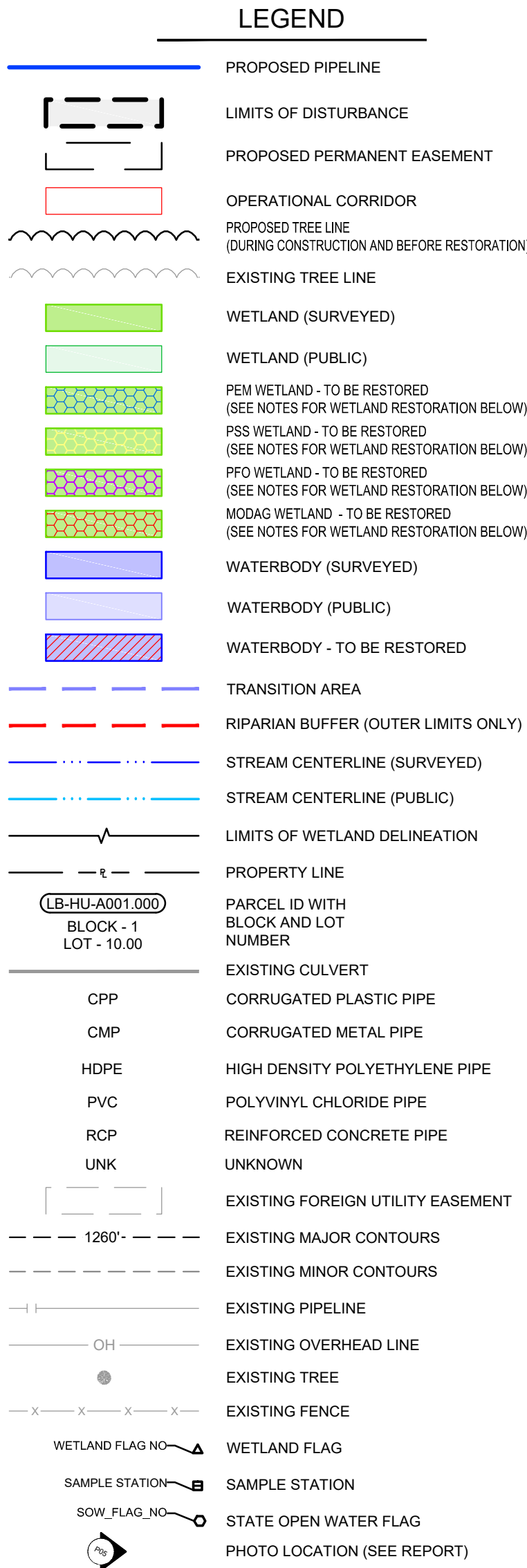
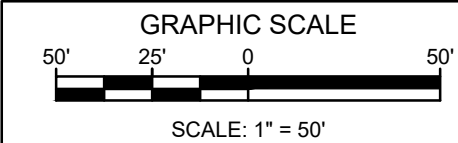
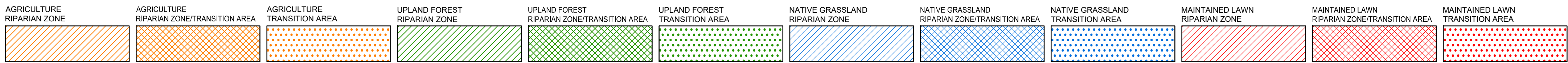
08/01/2019  
DATE

PENNEAST PIPELINE PROJECT		
<b>PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 89.5 - MP 89.6R2</b>		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-056	0





RIPIARIAN ZONE/TRANSITION  
AREA RESTORATION  
CATEGORIES



NOTES FOR WETLAND RESTORATION:

PEM WETLANDS IMPACTED WILL BE RESTORED AS PEM WETLANDS\*

PSS WETLANDS WITHIN THE LIMITS OF DISTURBANCE AND OUTSIDE THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PSS WETLANDS. PSS WETLANDS WITHIN THE OPERATIONAL CORRIDOR WILL BE RESTORED AS PEM WETLANDS.

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MODAG WETLANDS IMPACTED WILL BE RESTORED AS MODAG WETLANDS.

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N.J. LIC. NO. 24GS03676100

*Thomas D. Strong* 08/01/2019  
SIGNATURE DATE

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N.J. LIC. NO. 24GE05078700

*Michael J. Denichilo* 08/01/2019  
SIGNATURE DATE

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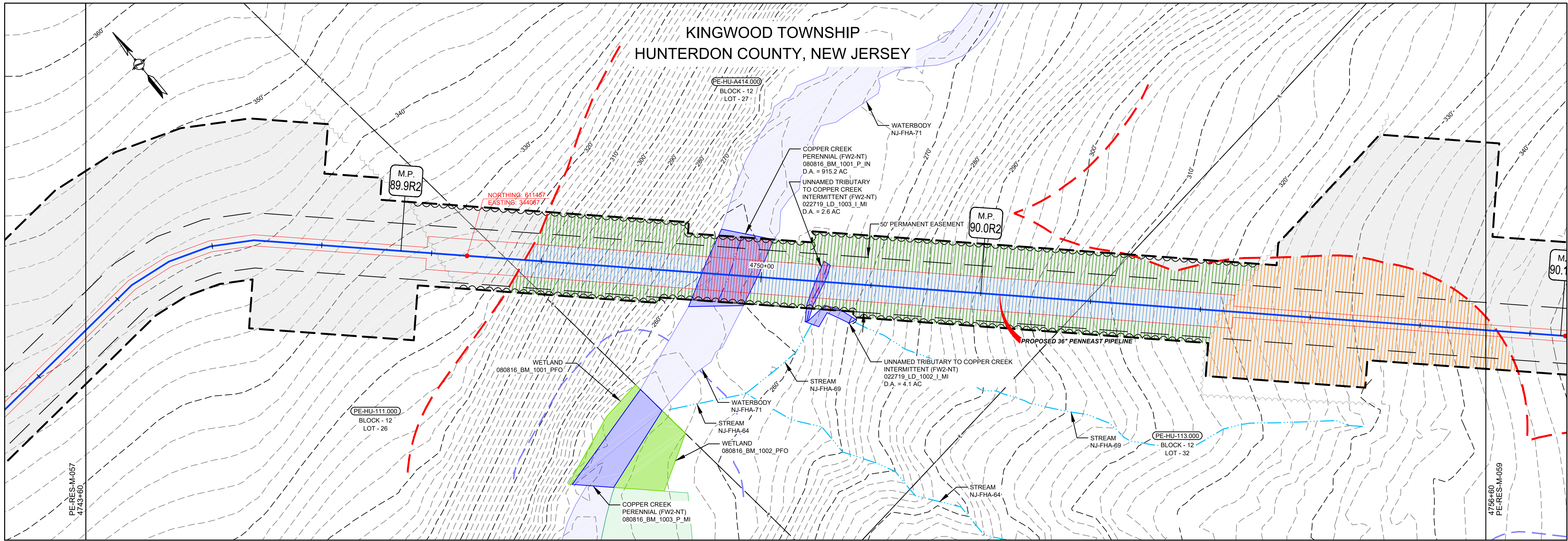
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DWG. NO.	TITLE	NO.	REVISIONS	DATE	DRAWN
		0	ISSUED FOR NJDEP PERMIT	7/2019	RJP
					CK
					APPR

APPROVALS			
DRAWN BY	DATE	CLIENT APPROVAL	DATE
RJP	7/2019		
CHECKED BY	DATE		
KEK	7/2019		
ENG. APPROVAL	DATE		
MJD	7/2019		
P.M. APPROVAL	DATE		
MW	7/2019		

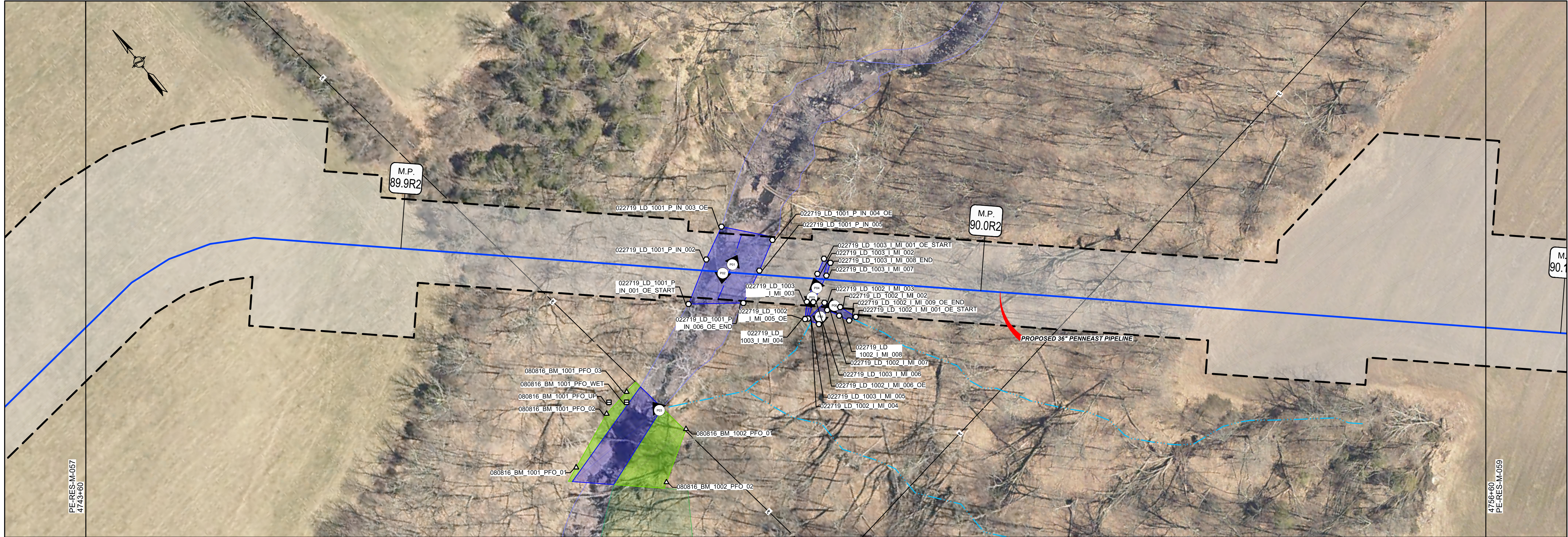
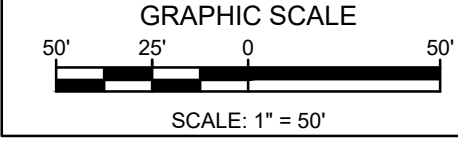
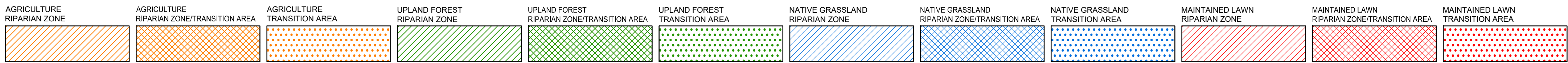
PREPARED FOR	
PennEast PIPELINE	
PREPARED BY	
MOTT MACDONALD	
111 WOOD AVENUE SOUTH, ISELIN, NJ 08830 CERTIFICATE NO. 24GA28016600	

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 89.6R2 - MP 89.8R2		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-057	0





RIPIARIAN ZONE/TRANSITION  
AREA RESTORATION  
CATEGORIES



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REFERENCE DRAWINGS		NO.	
DWG. NO.	TITLE		
		0	ISSUED FOR NJDEP PERMIT

REVISIONS						
NO.	REVISIONS	DATE	DRAWN	CK	APPR	
0	ISSUED FOR NJDEP PERMIT	7/2019	RJP	KEK	MJD	

APPROVALS	
DRAWN BY	DATE
RJP	7/2019
CHECKED BY	DATE
KEK	7/2019
ENG. APPROVAL	DATE
MJD	7/2019
P.M. APPROVAL	DATE
MW	7/2019

CLIENT APPROVAL	
DATE	
7/2019	

PREPARED FOR  
**PennEast**  
PIPELINE  
PREPARED BY  
**M M**  
MOTT  
MACDONALD  
111 WOOD AVENUE SOUTH, ISELIN, NJ 08830  
CERTIFICATE NO. 24GA28016600

**LEGEND**

- PROPOSED PIPELINE
- LIMITS OF DISTURBANCE
- PROPOSED PERMANENT EASEMENT
- OPERATIONAL CORRIDOR
- PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
- EXISTING TREE LINE
- WETLAND (SURVEYED)
- WETLAND (PUBLIC)
- PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
- WATERBODY (SURVEYED)
- WATERBODY (PUBLIC)
- WATERBODY - TO BE RESTORED
- TRANSITION AREA
- RIPIARIAN BUFFER (OUTER LIMITS ONLY)
- STREAM CENTERLINE (SURVEYED)
- STREAM CENTERLINE (PUBLIC)
- LIMITS OF WETLAND DELINEATION
- PROPERTY LINE
- PARCEL ID WITH BLOCK AND LOT NUMBER
- EXISTING CULTIVT
- CPP CORRUGATED PLASTIC PIPE
- CMP CORRUGATED METAL PIPE
- HDPE HIGH DENSITY POLYETHYLENE PIPE
- PVC POLYVINYL CHLORIDE PIPE
- RCP REINFORCED CONCRETE PIPE
- UNK UNKNOWN
- EXISTING FOREIGN UTILITY EASEMENT
- EXISTING MAJOR CONTOURS
- EXISTING MINOR CONTOURS
- EXISTING PIPELINE
- EXISTING OVERHEAD LINE
- EXISTING TREE
- EXISTING FENCE
- WETLAND FLAG NO. WETLAND FLAG
- SAMPLE STATION SAMPLE STATION
- SOW\_FLAG\_NO STATE OPEN WATER FLAG
- PHOTO LOCATION (SEE REPORT)

NOTES FOR WETLAND RESTORATION:

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SIGNATURE DATE

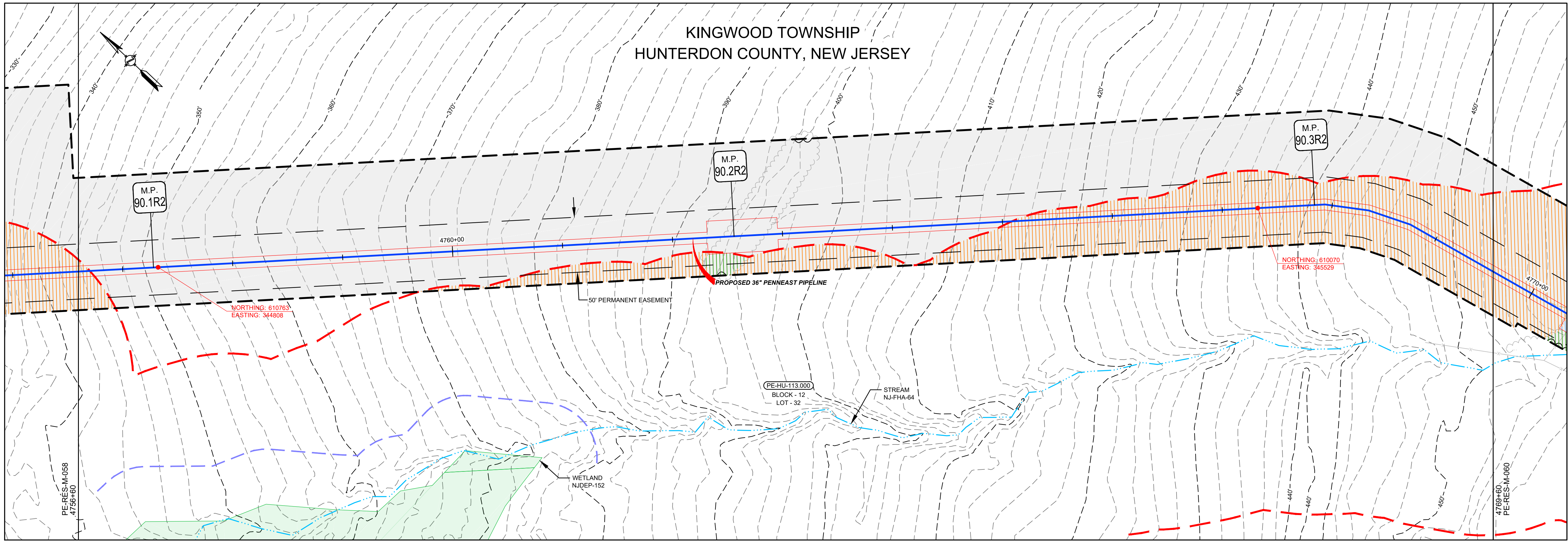
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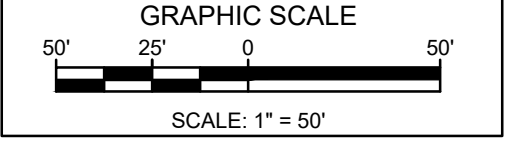
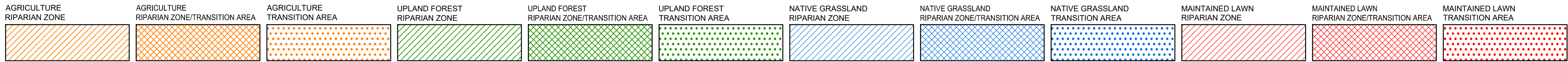
*Michael J. Denichilo* 08/01/2019  
SIGNATURE DATE

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 89.8R2 - MP 90.1R2		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-058	0





RIPARIAN ZONE/TRANSITION AREA RESTORATION CATEGORIES



LEGEND	
	PROPOSED PIPELINE
	LIMITS OF DISTURBANCE
	PROPOSED PERMANENT EASEMENT
	OPERATIONAL CORRIDOR
	PROPOSED TREE LINE (DURING CONSTRUCTION AND BEFORE RESTORATION)
	EXISTING TREE LINE
	WETLAND (SURVEYED)
	WETLAND (PUBLIC)
	PEM WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	PSS WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	PFO WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	MODAG WETLAND - TO BE RESTORED (SEE NOTES FOR WETLAND RESTORATION BELOW)
	WATERBODY (SURVEYED)
	WATERBODY (PUBLIC)
	WATERBODY - TO BE RESTORED
	TRANSITION AREA
	RIPARIAN BUFFER (OUTER LIMITS ONLY)
	STREAM CENTERLINE (SURVEYED)
	STREAM CENTERLINE (PUBLIC)
	LIMITS OF WETLAND DELINEATION
	PROPERTY LINE
	PARCEL ID WITH BLOCK - 1 LOT - 10.00
	EXISTING CULVERT
	CORRUGATED PLASTIC PIPE
	CORRUGATED METAL PIPE
	HIGH DENSITY POLYETHYLENE PIPE
	POLYVINYL CHLORIDE PIPE
	REINFORCED CONCRETE PIPE
	UNKNOWN
	EXISTING FOREIGN UTILITY EASEMENT
	EXISTING MAJOR CONTOURS
	EXISTING MINOR CONTOURS
	EXISTING PIPELINE
	EXISTING OVERHEAD LINE
	EXISTING TREE
	EXISTING FENCE
	WETLAND FLAG NO.
	SAMPLE STATION
	SOW FLAG NO.
	STATE OPEN WATER FLAG
	PHOTO LOCATION (SEE REPORT)

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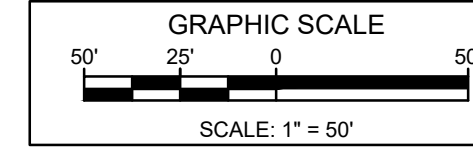
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MW	7/2019				

PREPARED FOR		PREPARED BY	
		111 WOOD AVENUE SOUTH, ISELIN, NJ 08830 CERTIFICATE NO. 24GA28016600	

PENNEAST PIPELINE PROJECT		
PENNEAST PIPELINE RESTORATION PERMIT PLAN MP 90.1R2 - MP 90.3R2		
SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-059	0





**PENNEAST PIPELINE PROJECT**

**PENNEAST PIPELINE  
RESTORATION PERMIT PLAN**

**MP 90.3R2 - MP 90.6R2**

SCALE	DRAWING NO.	REVISION
1" = 50'	PE-RES-M-060	0